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1.1 Pro	duct identifier
Trade n	ame: <u>I.G.O. 90W</u>
1.2 Rele	number: 3700 evant identified uses of the substance or mixture and uses advised against er relevant information available.
Applica	tion of the substance / the mixture Gear oil
Manufa ATCO li 1401 Ba	ails of the supplier of the Safety Data Sheet cturer/Supplier: nternational arclay Circle, rietta, Ga 30060 7550
ChemTe	ergency telephone number: el Inc. 5-3924, +1 (813)248-0585

· 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H411.

Classifications listed also are applicable to the OSHA GHS Hazard Communication Standard (29CFR1910.1200).

The following Hazard Statements are applicable only according to OSHA regulations within the United States. These Statements are not applicable for the CLP regulation (1272/2008/EC) in the EU: H317.



Skin Sens. 1 H317: May cause an allergic skin reaction.



Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

· Classification according to Directive 67/548/EEC or Directive 1999/45/EC

N; Dangerous for the environment

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

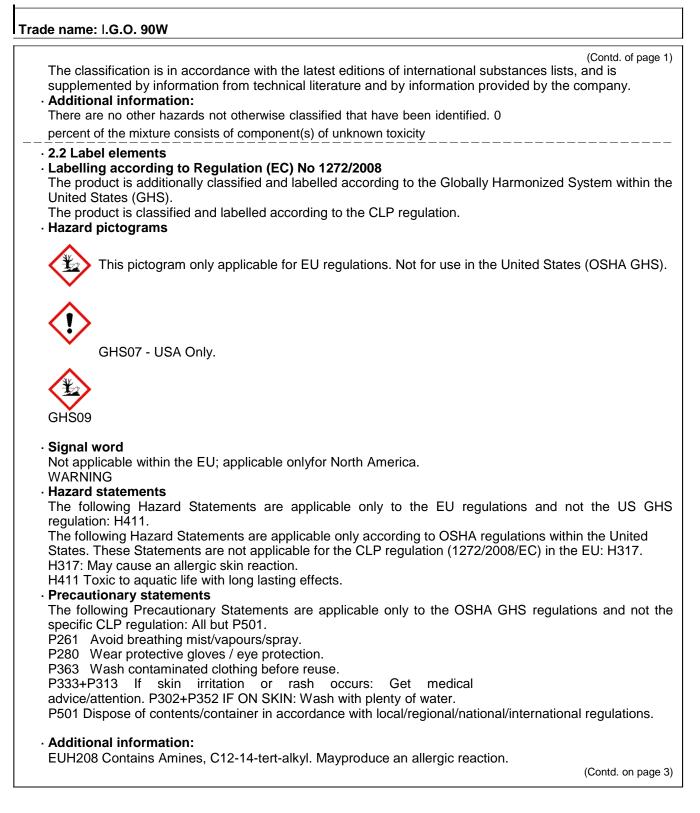
· Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

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Trade name: I.G.O. 90W

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- Hazard description:
 WHMIS-symbols: Not hazardous under WHMIS.
- NFPA ratings (scale 0 4)

Health = 2 Fire = 1 0 Reactivity= 0

· HMIS-ratings (scale 0 - 4)

HEALTH 2	2	Health = 2
FIRE		Fire = 1
	2	Reactivity= 0

· HMIS Long Term Health Hazard Substances

None of the ingredients are listed.

· 2.3 Other hazards

\cdot Results of PBT and vPvB assessment

- · PBT: Not applicable.
- · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients · 3.2 Mixtures · Description: Mixture of substances listed below with nonhazardous additions. · Dangerous components: CAS: 64742-54-7 Distillates (petroleum), hydrotreated heavyparaffinic 2,5-10% EINECS: 265-157-1 substance with a Community workplace exposure limit Index number: 649-467-00-8 Distillates (petroleum), solvent-refined light paraffinic CAS: 64741-89-5 2,5-10% 🗙 Xn R65 EINECS: 265-091-3 🚯 Asp. Tox<u>. 1, H304</u> Index number: 649-455-00-2 CAS: 68955-53-3 Amines, C12-14-tert-alkyl < 1% EINECS: 273-279-1 🧕 T R23/24-48/23; 👩 R34; 🛛 X 🙀 22-48; 🕮 Xi R 🙀; * N R50/53 🚲 Acute Tox. 3, H311; Acute Tox. 2, H330 👗 STOT RE 1, H372 💑 Skin Corr. 1B, H314 💑 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Acute Tox. 4, H302; Skin Sens. 1, H317 CAS: 112-90-3 (Z)-octadec-9-enylamine < 1% C R35; Xn R22-48/20/21/22-65; Xn 37; STOT RE 2, H373; Asp. Tox. 1, H304 EINECS: 204-015-5 N R50/53 Index number: 612-283-00-3 💑 Skin Corr. 1B, H314 💑 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 🕐 Acute Tox. 4. H302: STOT SE 3. H335 (Contd. on page 4)

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· Additional information:

(Contd. of page 3)

Note L: The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions - Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This product meets these requirements. For the listed ingredients, the identity and exact percentages are being withheld as a trade

secret. For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

- · General information: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air; consult doctor in case of complaints.

· After skin contact:

Immediately washwith water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- After swallowing: Rinse out mouth and then drink plenty of water. Do not induce vomiting; call for medical help immediately.
 4.2 Most important symptoms and effects, both acute and defined and defined acute a
- 4.2 Most important symptoms and effects, both acute and delayed Allergic reactions
 Slight irritant effect on eyes.
 Gastric or intestinal disorders when ingested. Nausea in case of ingestion.
- · Hazards Repeated exposure may cause skin dryness or cracking.

- 4.3 Indication of any immediate medical attention and special treatment needed

Treat skin and mucous membrane with antihistamine and corticoid preparations.

Contains Amines, C12-14-tert-alkyl. May produce an allergic reaction.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- Suitable extinguishing agents:
- Carbon
- dioxide Foam
- Fire-extinguishing powder
- · For safety reasons unsuitable extinguishing agents: Water
- \cdot 5.2 Special hazards arising from the substance or mixture
- Formation of toxic gases is possible during heating or in case of fire.
- 5.3 Advice for firefighters
- Protective equipment:

Wear self-contained respiratoryprotective device. Wear fully protective suit.

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· Additional information No further relevant information available.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation Wear protective equipment. Keep unprotected persons away. For large spills, userespiratory protective device against the effects of fumes/dust/aerosol. Particular danger of slipping on leaked/spilled product. 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water. Inform respective authorities in case of seepage into water course or sewage system. Prevent from spreading (e.g. by damming-in or oil barriers). · 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Send for recovery or disposal in suitable receptacles. · 6.4 Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Use only in well ventilated areas. Avoid splashes or spray in enclosed areas.
- Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Provide ventilation for receptacles.
- Avoid storage near extreme heat, ignition sources or open flame.
- Information about storage in one common storage facility: Store away from foodstuffs. Store
- away from oxidizing agents.
- Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

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(Contd. of page 5) · 8.1 Control parameters · Ingredients with limit values that require monitoring at the workplace: 64742-54-7 Distillates (petroleum), hydrotreated heavy paraffinic PEL (USA) Long-term value: 5 (mist) mg/m³ TLV (USA) Long-term value: 5 (mist) mg/m³ **DNELs** No further relevant information available. · PNECs No further relevant information available. · Additional information: The lists valid during the making were used as basis. 8.2 Exposure controls · Personal protective equipment: · General protective and hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Do not inhale gases / fumes / aerosols. Avoid contact with the eyes. Avoid close or long term contact with the skin. Wash hands before breaks and at the end of work. **Respiratory protection:** Not required under normal conditions of use. Use suitable respiratoryprotective device in case of insufficient ventilation. For spills, respiratory protection maybe advisable. · Protection of hands: Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. · Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. · Eye protection: Safety glasses Body protection: Oil resistant protective clothing · Limitation and supervision of exposure into the environment

No further relevant information available.

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· Risk management measures

See Section 7 for additional information.

No further relevant information available.

SECTION 9: Physical and chemical properties

• 9.1 Information on basic physical ar • General Information Not d • Appearance:	ad chemical properties	
Form:	Liquid	
Colour:	Red	
Odour: · Odour threshold: ·	Petroleum-like	
	Not determined.	
pH-value:	Not determined	
Change in condition	Not Determined	
Melting point/Melting range: Boiling point/Boiling range:	Not Determined. Undetermined.	
· Flash point:	> 204 °C (> 399 °F)	
· Flammability (solid, gaseous): ·	Not applicable.	
	Not determined.	
Auto/Self-ignition temperature:	Not determined.	
Decomposition temperature:	Not determined.	
· Self-igniting:	Product is not self-igniting.	
 Danger of explosion: 	Product does not present an explosion hazard.	
· Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
. Vapour pressure:	Not determined.	
Density at 20 °C (68 °F):	0,89 g/cm³ (7,427 lbs/gal)	
.Relative density · Vapour density at 20 °C (68 °F)	Not determined. > 1 g/cm ³ (> 8,345 lbs/gal) (Air =1)	
· Evaporation rate	Not determined. $(30,343,05)$ (All = 1)	
· Solubility in / Miscibility with		
water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/wate	r): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	(Contd. on page 8)
		(Conta. on page 6)

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Trade name: I.G.O. 90W

· 9.2 Other information

No further relevant information available.

SECTION 10: Stability and reactivity

- · 10.1 Reactivity
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications. To avoid thermal decomposition do not overheat.

10.3 Possibility of hazardous reactions

Toxic fumes maybe released if heated above the decomposition point. Reacts with strong acids and oxidizing agents.

- 10.4 Conditions to avoid Keep away from heat and direct sunlight.
- **10.5 Incompatible materials:** No further relevant information available.
- · 10.6 Hazardous decomposition products:
- Carbon monoxide and carbon dioxide Hydrocarbons

Nitrogen oxides (NOx)

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

· Acute toxicity:

· LD/LC50 values relevant for classification:

68955-53-3 Amines, C12-14-tert-alkyl

		-
Oral	LD50	612 mg/kg (rat)
		Female
Dermal	LD50	251 mg/kg (rat)
Inhalative	LC50/4h ′	1,19 mg/l (rat)
		251 mg/kg (rat) I,19 mg/l (rat) 157 ppm

- Primary irritant effect:
- on the skin: Slight irritant effect on skin and mucous membranes.
- on the eye: Slight irritant effect on eyes.
- Sensitisation: Sensitising effect by skin contact is possible by prolonged exposure.
- · Subacute to chronic toxicity: No further relevant information available.
- · Acute effects (acute toxicity, irritation and corrosivity):
- Maybe harmful in contact with skin.
- Maybe harmful if inhaled.
- · Repeated dose toxicity: Repeated exposures may result in skin and/or respiratory sensitivity.
- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction): See Section 15.

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SECTION 12: Ecological information

- · 12.1 Toxicity
- Aquatic toxicity: Toxic for aquatic organisms
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark:
- Toxic for fish
- Due to mechanical actions of the product (e.g. agglutinations) damages may occur.
- · Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Also poisonous for fish and plankton in water

bodies. Toxic for aquatic organisms

Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.

- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Contact waste processors for recycling information.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

· Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

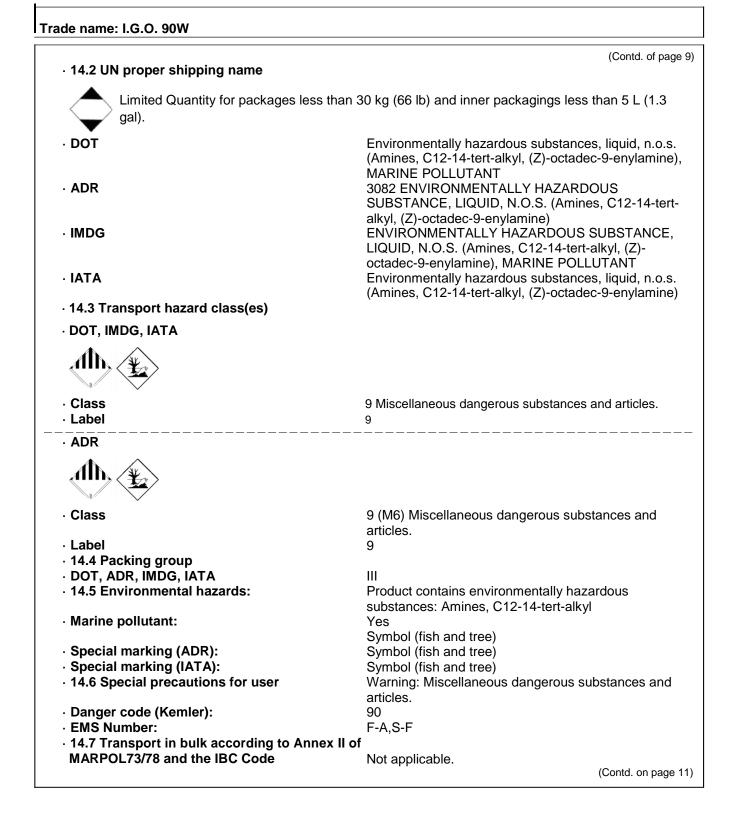
- · 14.1 UN-Number
- \cdot DOT, ADR, IMDG, IATA

UN3082

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	(Contd. of page 10
 Transport/Additional information: 	
· ADR	
 Limited quantities (LQ) 	5L
 Excepted quantities (EQ) 	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
 Transport category 	3
 Tunnel restriction code 	E
· IMDG	
 Limited quantities (LQ) 	5L
 Excepted quantities (EQ) 	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· DOT	Transport labeling is not required for non-bulk single
	package shipments by motor vehicle, rail car or aircraft
	Bulk packaging consists of a maximum capacity of
	greater than 450L (119 gallons) for a liquid and a maximum net mass greater than 400kg (882 pounds)
	for a solid.
· UN "Model Regulation":	UN3082, ENVIRONMENTALLY HAZARDOUS
	SUBSTANCE, LIQUID, N.O.S. (Amines, C12-14-tert-
	alkyl, (Z)-octadec-9-enylamine), 9, III

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture United States (USA)

· SARA

· Section 355 (extremely hazardous substances):

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

• TSCA (Toxic Substances Control Act):

All ingredients are listed.

Proposition 65 (California):

· Chemicals known to cause cancer:

Present in trace quantities: All except 64742-58-1. 64742-

58-1 Lubricating oils, petroleum, hydrotreated spent

75-21-8 ethylene oxide

75-56-9 propylene oxide

123-91-1 1,4-dioxane

140-88-5 ethyl acrylate

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• Chemicals known to cause reproductive toxicity for females:	
Present in trace quantities.	
75-21-8 ethylene oxide	
Chemicals known to cause reproductive toxicity for males: Present in trace quantities.	
75-21-8 ¢thylene oxide	
· Chemicals known to cause developmental toxicity:	
Present in trace quantities.	
75-21-8 ethylene oxide	
· Carcinogenic Categories	
· EPA (Environmental Protection Agency)	
None of the ingredients are listed.	
· IARC (International Agency for Research on Cancer)	
None of the ingredients are listed.	
· TLV (Threshold Limit Value established by ACGIH)	
None of the ingredients are listed.	
· NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients are listed.	
· Canada	
· Canadian Domestic Substances List (DSL)	
All ingredients are listed.	
· Canadian Ingredient Disclosure list (limit 0.1%)	
None of the ingredients are listed.	
· Canadian Ingredient Disclosure list (limit 1%)	
None of the ingredients are listed.	
· Other regulations, limitations and prohibitive regulations	
This product has been classified in accordance with hazard criteria of the Cor	5
and the SDS contains all the information required by the Controlled Products	
Substances of very high concern (SVHC) according to REACH, Article 5	(
None of the ingredients are listed.	
• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not	been carried out.
SECTION 16: Other information This information is based on our present knowledge. However, this shall not c	constitute a quarantee for

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

H302	Harmful if swallowed.
H304	Maybe fatal if swallowed and enters airways.
H311	Toxic in contact with skin.

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Frade name: I.G.O. 90W				
H314 H317	Causes severe skin burns and eye damage. May cause an allergic skin reaction.	(Contd. of page 12)		
H330	Fatal if inhaled.			
H335	May cause respiratory irritation.			
H372	Causes damage to organs through prolonged or repeated exposure	2		
H373	May cause damage to organs through prolonged or repeated exposi-			
H400	Very toxic to aquatic life.			
H410	Very toxic to aquatic life with long lasting effects.			
R22 R23/24 R34 R35 R37 R43 R48 R48/20/21/22 R48/23	Harmful if swallowed. Toxic by inhalation and in contact with skin. Causes burns. Causes severe burns. Irritating to respiratory system. May cause sensitisation by skin contact. Danger of serious damage to health by prolonged exposure. Harmful: danger of serious damage to health by prolonged exposure contact with skin and if swallowed. Toxic: danger of serious damage to health by prolonged exposure to	-		
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effe environment.			
R65	Harmful: may cause lung damage if swallowed.			
IMDG: Internatio DOT: US Depart IATA: Internation GHS: Globally H ACGIH: America European Invent European List of CAS: Chemical A NFPA: National F HMIS: Hazardou WHMIS: Workpla DNEL: Derived N PNEC: Predicteo LC50: Lethal cor LD50: Lethal dos Acute Tox. 4: Ac Acute Tox. 2: Ac Skin Corr. 1B: Sł Skin Sens. 1: Se STOT SE 3: Spe STOT RE 1: Spe STOT RE 2: Spe Aquatic Acute 1: Aquatic Chronic	rriage of Dangerous Goods by Road) nal Maritime Code for Dangerous Goods trment of Transportation hal Air Transport Association larmonised System of Classification and Labelling of Chemicals an Conference of Governmental Industrial Hygienists EINECS: tory of Existing Commercial Chemical Substances ELINCS: * Notified Chemical Substances Abstracts Service (division of the American Chemical Society) Fire Protection Association (USA) us Materials Identification System (USA) ace Hazardous Materials Information System (Canada) No-Effect Level (REACH) d No-Effect Concentration (REACH) hcentration, 50 percent se, 50 percent sute toxicity, Hazard Category 4 kin corrosion/irritation, Hazard Category 1B ensitisation - Skin, Hazard Category 1 ecific target organ toxicity - Repeated exposure, Hazard Category 3 acific target organ toxicity - Repeated exposure, Hazard Category 1 ecific target organ toxicity - Repeated exposure, Hazard Category 1 Hazardous to the aquatic environment - AcuteHazard, Category 1 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2 2: Hazardous to the aquatic environment - Chronic Hazard, Category 1 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2 3: Hazardous to the aquatic environment - Chronic Hazard, Category 2 3: Hazardous to the aquatic environment - Chronic Hazard, Category 2 3: Hazardous to the aquatic environment - Chronic Hazard, Category 2 3: Hazardous to the aquatic environment - Chronic Hazard, Category 2 4: Hazardous to the aquatic environment - Chronic Hazard, Category 2 4: Hazardous to the aquatic environ			
SDS Prep by: ChemTel	bared			

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Trade name: I.G.O. 90W

1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtelinc.com

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SECTION 1: Identification of the substance/mixture and of the company/			
undertaking			
· 1.1 Product identifier			
· Trade name: <u>I.G.O. 85W140</u>			
 Article number: 3710 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. 			
Application of the substance / the mixture Lubricant			
 1.3 Details of the supplier of the Safety Data Sheet Manufacturer/Supplier: ATCO International 1401 Barclay Circle,S.E. Marietta, Ga 30060 770-424-7550 			
• 1.4 Emergency telephone number: ChemTel Inc. (800)255-3924, +1 (813)248-0585			
SECTION 2: Hazards identification			
 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 Classifications listed also are applicable to the OSHA GHS Hazard Communication Standard (29CFR1910.1200). The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H412. The following classifications are applicable only to OSHA (USA) regulations and not the specific CLF regulation: H317. Skin Sens. 1 H317: May cause an allergic skin reaction. 			
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.			
Classification according to Directive 67/548/EEC or Directive 1999/45/EC			
R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.			
 Information concerning particular hazards for human and environment: The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version. Classification system: The classification is according to the latest editions of the EU lists, and extended by company and 			
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.			

The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company. • Additional information:

There are no other hazards not otherwise classified that have been identified.

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Trade name: I.G.O. 85W140

0 percent of the mixture consists of component(s) of unknown toxicity

· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

The product is additionally classified and labelled according to the Globally Harmonized System within the United States (GHS).

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS07 - USA Only.

Signal word

Applicable only within the United States(USA) WARNING

Hazard-determining components of labelling:

Amines, C12-14-tert-alkyl

Hazard statements

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H412.

The following Hazard Statements are applicable only according to OSHA regulations within the United States. These Statements are not applicable for the CLP regulation (1272/2008/EC) in the EU: H317. H317: May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

The following Precautionary Statements are applicable only to the OSHA GHS regulations and not the specific CLP regulation: all except P501.

- P261 Avoid breathing mist/vapours/spray.
- P280 Wear protective gloves / eye protection.
- P363 Wash contaminated clothing before reuse.

P333+P313 If skin irritation or rash occurs: Get medical

advice/attention. P302+P352 IF ON SKIN: Wash with plenty of water.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· Additional information:

EUH208 Contains Amines, C12-14-tert-alkyl. May produce an allergic reaction.

· Hazard description:

· WHMIS-symbols: Not hazardous under WHMIS.

· NFPA ratings (scale 0 - 4)



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	Trade name: I.G.O. 85W140	
	(Cor	td. of page 2)
	· HMIS-ratings (scale 0 - 4)	
	HEALTH $\boxed{2}$ Health = 2	
	FIRE I REACTIVITY 0	
	· HMIS Long Term Health Hazard Substances	
	None of the ingredients are listed.	
	• 2.3 Other hazards • Results of PBT and vPvB assessment • PBT: Not applicable. •	
	vPvB: Not applicable.	
	SECTION 3: Composition/information on ingredients - 3.2 Mixtures	
.	Description: Mixture of substances listed below with nonhazardous additions.	
	· Dangerous components:	
	CAS: 68955-53-3 Amines, C12-14-tert-alkyl EINECS: 273-279-1 T R23/24-48/23; R R34; X R22-48; Xi R35; R R50/53 Acute Tox. 3, H311; Acute Tox. 2, H330 STOT RE 1, H372 Skin Corr. 1B, H314 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Acute Tox. 4, H302; Skin Sens. 1, H317	_ < 1%
	CAS: 64742-58-1 Lubricating oils, petroleum, hydrotreated spent	< 1%
	EINECS: 265-161-3 substance with a Community work place exposure limit	
	 Additional information: Note L: The classification as a carcinogen need not apply if it can be shown that the substance less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics i lubricating base oils and asphaltene free petroleum fractions - Dimethyl sulphoxide extraction index method', Institute of Petroleum, London. This product meets these requirements. For the listed ingredients, the identityand exact percentages are being withheld as a trade secret For the wording of the listed risk phrases refer to section 16. 	n unused refractive
	Notable Trace Components (≤ 0,1% w/w)	
	CAS: 112-90-3 EINECS: 204-015-5 Index number: 612-283-00-3 STOT RE 2, H373; Asp. Tox. 1, H304 Skin Corr. 1B, H314 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Acute Tox 4, H302; STOT SE 3, H335	

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SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact:

Immediately wash with water and soap and rinse

thoroughly. If skin irritation continues, consult a doctor.

- After eye contact:
 Remove contact lenses if worn.
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

• 4.2 Most important symptoms and effects, both acute and delayed

Allergic reactions

Slight irritant effect on eyes.

Gastric or intestinal disorders when

ingested. Nausea in case of ingestion.

- · Hazards Repeated exposure may cause skin dryness or cracking.
- 4.3 Indication of any immediate medical attention and special treatment needed
- Treat skin and mucous membrane with antihistamine and corticoid preparations.

Contains Amines, C12-14-tert-alkyl. May produce an allergic reaction.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media
 Suitable extinguishing agents: Carbon dioxide Fireextinguishing powder Foam
 For safety reasons unsuitable extinguishing agents: Water
 5.2 Special hazards arising from the substance or mixture Formation of toxic gases is possible during heating or in case of fire.
 5.3 Advice for firefighters
 Protective equipment: Wear self-contained respiratory protective device. Wear fully protective suit.
- Additional information No further relevant information available.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
 Wear protective equipment. Keep unprotected persons
 away. Ensure adequate ventilation
 For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.

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Particular danger of slipping on leaked/spilled product.

6.2 Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage

- system. Prevent from spreading (e.g. by damming-in or oil barriers).
- 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

Send for recovery or disposal in suitable receptacles.

6.4 Reference to other sections
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection

equipment. See Section 13 for disposal information.

SECTION 7: Handling and storage

• **7.1 Precautions for safe handling** Use only in well ventilated areas. Avoid splashes or spray in enclosed areas.

• Information about fire - and explosion protection: No special measures required.

- 7.2 Conditions for safe storage, including any incompatibilities
 Storage:
- **Requirements to be met by storerooms and receptacles:** Provide ventilation for receptacles. Avoid storage near extreme heat, ignition sources or open flame.
- Information about storage in one common storage facility: Store away from foodstuffs. Store away from oxidizing agents.

• Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.

· 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

· 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

64742-58-1 Lubricating oils, petroleum, hydrotreated spent

PEL (USA) Long-term value: 5 (mist) mg/m³

TLV (USA) Short-term value: 10 (mist) mg/m³

Long-term value: 5 (mist) mg/m³

• DNELs No further relevant information available.

• **PNECs** No further relevant information available.

• Additional information: The lists valid during the making were used as basis.

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(Contd. of page 5) · 8.2 Exposure controls · Personal protective equipment: · General protective and hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin. Respiratory protection: Not required under normal conditions of use. Use suitable respiratory protective device in case of insufficient ventilation. For spills, respiratory protection maybe advisable. · Protection of hands: Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. · Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of guality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. · Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. · Eye protection: Safety glasses Body protection: Oil resistant protective clothing · Limitation and supervision of exposure into the environment No further relevant information available. · Risk management measures See Section 7 for additional information. No further relevant information available. **SECTION 9: Physical and chemical properties**

 \cdot 9.1 Information on basic physical and chemical properties

- · General Information
- · Appearance:
- Form:

Liquid

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		(Contd. of page
Colour: Odour:		
Odour: Odour threshold:	Petroleum-like	
	Not determined.	
pH-value:	Not determined.	
Change in condition	Not Determined	
Melting point/Melting range:	Not Determined.	
Boiling point/Boiling range:	Undetermined.	
Flash point:	> 200 °C (> 392 °F)	
Flammability (solid, gaseous):	Not applicable.	
Auto/Self-ignition temperature:	Not determined.	
Decomposition temperature:	Not determined.	
Self-igniting:	Product is not self-igniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapour pressure:	Not determined.	
Density at 20 °C (68 °F):	0,89 g/cm³ (7,427 lbs/gal)	
Relative density	Not determined.	
Vapour density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
water:	Not miscible or difficult to mix.	
Partition coefficient (n-octanol/wate	er): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic: 9.2 Other information	Not determined. No further relevant information available.	

SECTION 10: Stability and reactivity

· 10.1 Reactivity	
· 10.2 Chemical stability	
 Thermal decomposition / conditions to be avoided: 	
No decomposition if used and stored according to	
specifications. To avoid thermal decomposition do not overheat.	
10.3 Possibility of hazardous reactions	
Toxic fumes maybe released if heated above the decomposition point.	
Reacts with strong acids and oxidizing agents.	
· 10.4 Conditions to avoid Keep away from heat and direct sunlight.	
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• 10.5 Incompatible materials: No further relevant information available.

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• **10.6 Hazardous decomposition products:** Carbon monoxide and carbon dioxide Hydrocarbons Nitrogen oxides (NOx)

Phosphorus oxides (e.g. P2O5)

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

· Acute toxicity:

· LD/LC50 values relevant for classification:

68955-53-3 Amines, C12-14-tert-alkyl			
Oral		612 mg/kg (rat) Female	
Dermal Inhalative	LD50 LC50/4h ⁻	251 mg/kg (rat) I,19 mg/l (rat) 157 ppm	

Primary irritant effect:

- on the skin: Slight irritant effect on skin and mucous membranes.
- on the eye: Slight irritant effect on eyes.
- Sensitisation: Sensitising effect byskin contact is possible byprolonged exposure.
- Subacute to chronic toxicity: No further relevant information available.
- · Acute effects (acute toxicity, irritation and corrosivity):
- Maybe harmful if inhaled.
- Maybe harmful in contact with skin.
- Repeated dose toxicity: Repeated exposures may result in skin and/or respiratory sensitivity.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction): See Section 15.

SECTION 12: Ecological information

- · 12.1 Toxicity
- Aquatic toxicity: The material is harmful to the environment.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- Ecotoxical effects:
- · Remark:
- Harmful to fish

Due to mechanical actions of the product (e.g. agglutinations) damages may occur.

- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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Harmful to aquatic organisms Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.

- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.

· vPvB: Not applicable.

• 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Contact waste processors for recycling information.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

· Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information	
· 14.1 UN-Number	
· DOT, ADR, ADN, IMDG, IATA	Not Regulated
14.2 UN proper shipping name	
· DOT, ADR, ADN, IMDG, IATA	Not Regulated
 14.3 Transport hazard class(es) 	
· DOT, ADR, ADN, IMDG, IATA	
Class	Not Regulated
· 14.4 Packing group	
DOT, ADR, IMDG, IATA	Not Regulated
 · 14.5 Environmental hazards: · Marine pollutant: 	Νο
• 14.6 Special precautions for user	Not applicable.
• 14.7 Transport in bulk according to Annex I	1.1
MARPOL73/78 and the IBC Code	Not applicable.
· UN "Model Regulation":	-

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 15.1 Safety, health and environmental regulations/legislation specific for United States (USA) SARA 	the substance or mixtur
 Section 355 (extremely hazardous substances): 	
None of the ingredients are listed.	
Section 313 (Specific toxic chemical listings):	
None of the ingredients are listed.	
· TSCA (Toxic Substances Control Act):	
All ingredients are listed.	
· Proposition 65 (California):	
· Chemicals known to cause cancer:	
Present in trace quantities: All except 64742-58-1. 64742-	
58-1 Lubricating oils, petroleum, hydrotreated spent	
75-56-9 propylene oxide	
75-21-8 ethylene oxide	
140-88-5 ethyl acrylate	
123-91-1 1,4-dioxane	
Chemicals known to cause reproductive toxicity for females: Present in trace quantities.	
75-21-8 ethylene oxide	
Chemicals known to cause reproductive toxicity for males: Present in trace quantities.	
75-21-8 ethylene oxide	
Chemicals known to cause developmental toxicity: Present in trace quantities.	
75-21-8 ethylene oxide	
Carcinogenic Categories	
· EPA (Environmental Protection Agency)	
None of the ingredients are listed.	
· IARC (International Agency for Research on Cancer)	
None of the ingredients are listed.	
· TLV (Threshold Limit Value established by ACGIH)	
None of the ingredients are listed.	
· NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients are listed.	
· Canada	
· Canadian Domestic Substances List (DSL)	

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Canadian Ingredient Disclosure list (limit 0.1%)

None of the ingredients are listed.

· Canadian Ingredient Disclosure list (limit 1%)

None of the ingredients are listed.

• Other regulations, limitations and prohibitive regulations This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

• Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients are listed.

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

- H302 Harmful if swallowed.
- H311 Toxic in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H330 Fatal if inhaled.
- H372 Causes damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

R22 Harmful if swallowed.

- R23/24 Toxic by inhalation and in contact with
- skin. R34 Causes burns.
- R43 May cause sensitisation by skin contact.
- R48 Danger of serious damage to health by prolonged exposure.
- R48/23 Toxic: danger of serious damage to health by prolonged exposure through inhalation.
- R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) (Contd. on page 12)

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LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent Acute Tox. 4: Acute toxicity, Hazard Category 4 Acute Tox. 3: Acute toxicity, Hazard Category 3 Acute Tox. 2: Acute toxicity, Hazard Category 2 Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B Skin Sens. 1: Sensitisation - Skin, Hazard Category 1 STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1 Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1 Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3 · Sources SDS Prepared by: ChemTel Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl.+01 813-248-0573 Website: www.chemtelinc.com

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undertak	ct identifier
	ne: I.G.O. 80W90
Article nui 1.2 Releva	mber: 3715 Int identified uses of the substance or mixture and uses advised against relevant information available.
Applicatio	n of the substance / the mixture Gear oil
Manufactu ATCO Inte	ay Circle, SE Ga 30060
ChemTel Ir	ency telephone number: nc. 3924, +1 (813)248-0585

· 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H411.

Classifications listed also are applicable to the OSHA GHS Hazard Communication Standard (29CFR1910.1200).

The following Hazard Statements are applicable only according to OSHA regulations within the United States. These Statements are not applicable for the CLP regulation (1272/2008/EC) in the EU: H317.



Skin Sens. 1 H317: May cause an allergic skin reaction.



Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

· Classification according to Directive 67/548/EEC or Directive 1999/45/EC

N; Dangerous for the environment

R51/53: Toxic to aquatic organisms, maycause long-term adverse effects in the aquatic environment.

· Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

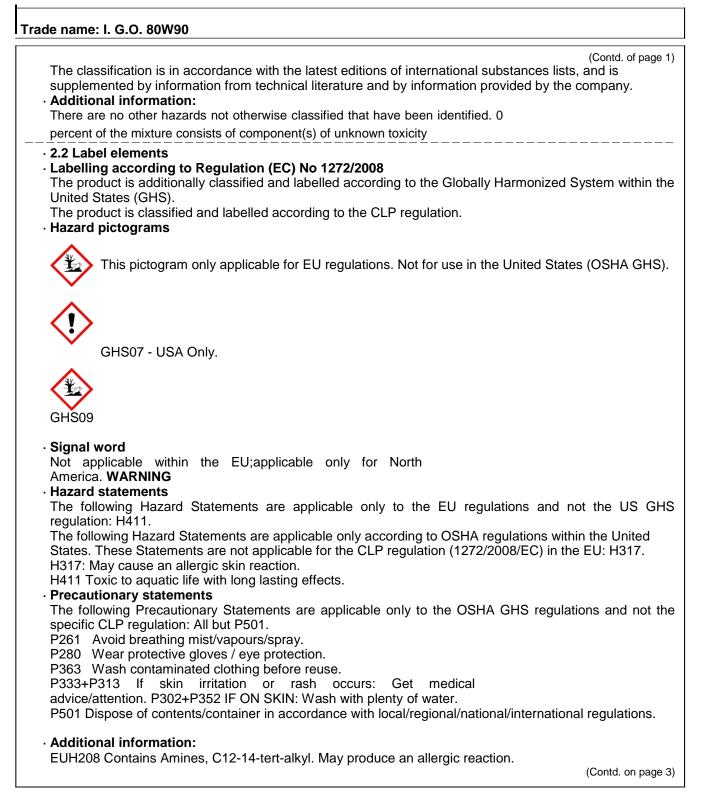
· Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

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- Hazard description:
 WHMIS-symbols: Not hazardous under WHMIS.
- NFPA ratings (scale 0 4)

Health = 2 Fire = 1 0 Reactivity= 0

· HMIS-ratings (scale 0 - 4)

Health = 2
Fire = 1
Reactivity=

· HMIS Long Term Health Hazard Substances

0

None of the ingredients are listed.

· 2.3 Other hazards

\cdot Results of PBT and vPvB assessment

- · PBT: Not applicable.
- · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients · 3.2 Mixtures · Description: Mixture of substances listed below with nonhazardous additions. · Dangerous components: CAS: 64742-54-7 Distillates (petroleum), hydrotreated heavyparaffinic 2,5-10% substance with a Communityworkplace exposure limit EINECS: 265-157-1 Index number: 649-467-00-8 CAS: 64741-89-5 Distillates (petroleum), solvent-refined light paraffinic 2,5-10% 🗙 Xn R65 EINECS: 265-091-3 🚯 Asp. Tox<u>. 1, H304</u> Index number: 649-455-00-2 CAS: 68955-53-3 Amines, C12-14-tert-alkyl < 1% EINECS: 273-279-1 🧕 T R23/24-48/23; 👩 R34; 🛛 X 🙀 22-48; 🕮 Xi R 🙀; * N R50/53 🚲 Acute Tox. 3, H311; Acute Tox. 2, H330 👗 STOT RE 1, H372 💑 Skin Corr. 1B, H314 💑 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Acute Tox. 4, H302; Skin Sens. 1, H317 CAS: 112-90-3 (Z)-octadec-9-enylamine < 1% C R35; Xn R22-48/20/21/22-65; Xn 37; STOT RE 2, H373; Asp. Tox. 1, H304 EINECS: 204-015-5 N R50/53 Index number: 612-283-00-3 💑 Skin Corr. 1B, H314 💑 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 🕐 Acute Tox. 4. H302: STOT SE 3. H335 (Contd. on page 4)

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· Additional information:

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Note L: The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions - Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This product meets these requirements. For the listed ingredients, the identity and exact percentages are being withheld as a trade

secret. For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

- · General information: Immediately remove any clothing soiled by the product.
- After inhalation: Supplyfresh air; consult doctor in case of complaints.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.

- After eye contact:
- Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- After swallowing: Rinse out mouth and then drink plenty of water. Do not induce vomiting; call for medical help immediately.
 4.2 Most important symptoms and effects, both acute and delay.
- 4.2 Most important symptoms and effects, both acute and delayed Allergic reactions
 Slight irritant effect on eyes.
 Gastric or intestinal disorders when ingested. Nausea in case of ingestion.
- · Hazards Repeated exposure may cause skin dryness or cracking.

- 4.3 Indication of any immediate medical attention and special treatment needed

Treat skin and mucous membrane with antihistamine and corticoid preparations.

Contains Amines, C12-14-tert-alkyl. May produce an allergic reaction.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- Suitable extinguishing agents:
- Carbon
- dioxide Foam
- Fire-extinguishing powder
- · For safety reasons unsuitable extinguishing agents: Water
- \cdot 5.2 Special hazards arising from the substance or mixture
- Formation of toxic gases is possible during heating or in case of fire.
- 5.3 Advice for firefighters
- Protective equipment:

Wear self-contained respiratoryprotective device. Wear fully protective suit.

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· Additional information No further relevant information available.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation Wear protective equipment. Keep unprotected persons away. For large spills, use respiratoryprotective device against the effects of fumes/dust/aerosol. Particular danger of slipping on leaked/spilled product. 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water. Inform respective authorities in case of seepage into water course or sewage system. Prevent from spreading (e.g. bydamming-in or oil barriers). · 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Send for recoveryor disposal in suitable receptacles. · 6.4 Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Use onlyin well ventilated areas. Avoid splashes or spravin enclosed areas.
- Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Provide ventilation for receptacles.
- Avoid storage near extreme heat, ignition sources or open flame.
- Information about storage in one common storage facility: Store awayfrom foodstuffs. Store
- awayfrom oxidising agents.
- Further information about storage conditions: Store in cool, dryconditions in well sealed receptacles.
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

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· 8.1 Control parameters	
· Ingredients with limit values that require monitoring at the workplace:	
64742-54-7 Distillates (petroleum), hydrotreated heavy paraffinic	
PEL (USA) Long-term value: 5 (mist) mg/m ³	
TLV (USA) Long-term value: 5 (mist) mg/m ³	
• DNELs No further relevant information available.	
 PNECs No further relevant information available. Additional information: The lists valid during the making were used as basis. 	
· 8.2 Exposure controls · Personal protective equipment:	
General protective and hygienic measures:	
The usual precautionarymeasures are to be adhered to when handling chemicals.	
Keep awayfrom foodstuffs, beverages and feed.	
Immediatelyremove all soiled and contaminated clothing.	
Do not inhale gases / fumes / aerosols. Avoid contact with the eyes.	
Avoid close or long term contact with the skin. Wash	
hands before breaks and at the end of work.	
Respiratory protection:	
Not required under normal conditions of use.	
Use suitable respiratoryprotective device in case of insufficient ventilation. For spills, respiratoryprotection maybe advisable.	
Protection of hands:	
μ.	
Protective gloves	
The glove material has to be impermeable and resistant to the product/ the substance/	
Selection of the glove material on consideration of the penetration times, rates of diffusi	on and the
degradation. Material of gloves	
The selection of the suitable gloves does not only depend on the material, but also d	on further marks
quality and varies from manufacturer to manufacturer. As the product is a prep	
substances, the resistance of the glove material can not be calculated in advance and	has therefore to b
checked prior to the application.	
Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective	aloves and has
be observed.	giovee and nae
Eye protection:	
Safetyglasses	
Body protection: Oil resistant protective clothing	
Limitation and supervision of exposure into the environment	
No further relevant information available.	(Contd. on page

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· Risk management measures

See Section 7 for additional information.

No further relevant information available.

SECTION 9: Physical and chemical properties

 9.1 Information on basic physical an General Information Appearance: Form: Colour: Odour: Odour threshold: 	d chemical properties Liquid Red Petroleum-like Not determined.	
pH-value:	Not determined.	
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Not Determined. Undetermined.	
· Flash point:	> 204 °C (> 399 °F)	
· Flammability (solid, gaseous): ·	Not applicable.	
Auto/Self-ignition temperature: ·	Not determined.	
Decomposition temperature:	Not determined.	
· Self-igniting:	Product is not self-igniting.	
 Danger of explosion: 	Product does not present an explosion hazard.	
 Explosion limits: Lower: Upper: 	Not determined. Not determined.	
· Vapour pressure:	Not determined.	
 Density at 20 °C (68 °F): · Relative density Vapour density at 20 °C (68 °F) Evaporation rate Solubility in / Miscibility with 	0,89 g/cm ³ (7,427 lbs/gal) Not determined. > 1 g/cm ³ (> 8,345 lbs/gal) (Air =1) Not determined.	
water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/water	r): Not determined.	
 Viscosity: Dynamic: Kinematic: 	Not determined. Not determined.	(Contd. on page 8)

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· 9.2 Other information

No further relevant information available.

SECTION 10: Stability and reactivity

- · 10.1 Reactivity
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications. To avoid thermal decomposition do not overheat.

10.3 Possibility of hazardous reactions

Toxic fumes maybe released if heated above the decomposition point. Reacts with strong acids and oxidising agents.

- 10.4 Conditions to avoid Keep awayfrom heat and direct sunlight.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products:
- Carbon monoxide and carbon dioxide Hydrocarbons

Nitrogen oxides (NOx)

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

· Acute toxicity:

· LD/LC50 values relevant for classification:

68955-53-3 Amines, C12-14-tert-alkyl

Oral		612 mg/kg (rat)
		Female
Dermal	LD50	251 mg/kg (rat) I,19 mg/l (rat) 157 ppm
Inhalative	LC50/4h ′	I,19 mg/l (rat)
		157 ppm

- Primary irritant effect:
- on the skin: Slight irritant effect on skin and mucous membranes.
- on the eye: Slight irritant effect on eyes.
- Sensitisation: Sensitising effect byskin contact is possible byprolonged exposure.
- Subacute to chronic toxicity: No further relevant information available.
- · Acute effects (acute toxicity, irritation and corrosivity):
- Maybe harmful in contact with skin.
- Maybe harmful if inhaled.
- · Repeated dose toxicity: Repeated exposures mayresult in skin and/or respiratorysensitivity.
- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction): See Section 15.

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SECTION 12: Ecological information

- · 12.1 Toxicity
- Aquatic toxicity: Toxic for aquatic organisms
- 12.2 Persistence and degradability No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark:
- Toxic for fish
- Due to mechanical actions of the product (e.g. agglutinations) damages mayoccur.
- Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Also poisonous for fish and plankton in water

bodies. Toxic for aquatic organisms

Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.

- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Contact waste processors for recycling information.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

· Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

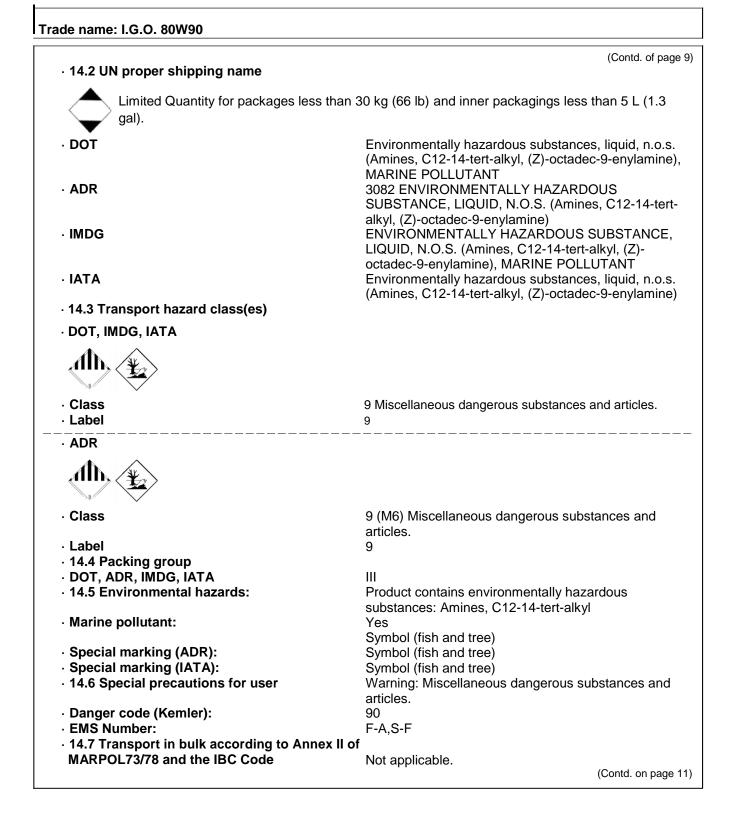
- · 14.1 UN-Number
- \cdot DOT, ADR, IMDG, IATA

UN3082

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	(Contd. of page 10
· Transport/Additional information:	
• ADR	
 Limited quantities (LQ) 	5L
 Excepted quantities (EQ) 	Code: E1
	Maximum net quantityper inner packaging: 30 ml
	Maximum net quantityper outer packaging: 1000 ml
Transport category	3
Tunnel restriction code	E
· IMDG	
 Limited quantities (LQ) 	5L
 Excepted quantities (EQ) 	Code: E1
	Maximum net quantityper inner packaging: 30 ml
5.07	Maximum net quantityper outer packaging: 1000 ml
· DOT	Transport labeling is not required for non-bulk single
	package shipments by motor vehicle, rail car or aircraft Bulk packaging consists of a maximum capacity of
	greater than 450L (119 gallons) for a liquid and a
	maximum net mass greater than 400kg (882 pounds)
	for a solid.
 UN "Model Regulation": 	UN3082, ENVIRONMENTALLY HAZARDOUS
	SUBSTANCE, LIQUID, N.O.S. (Amines, C12-14-tert-
	alkyl, (Z)-octadec-9-enylamine), 9, III

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture United States (USA)

· SARA

· Section 355 (extremely hazardous substances):

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

• TSCA (Toxic Substances Control Act):

All ingredients are listed.

- · Proposition 65 (California):
- · Chemicals known to cause cancer:
- Present in trace quantities: All except 64742-58-1. 64742-

58-1 Lubricating oils, petroleum, hydrotreated spent

75-21-8 ethylene oxide

75-56-9 propylene oxide

123-91-1 1,4-dioxane

140-88-5 ethyl acrylate

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	(Contd. of page 11
Chemicals known to cause reproductive toxicity for females: Present in trace quantities.	
75-21-8 ¢thylene oxide	
· Chemicals known to cause reproductive toxicity for males:	
Present in trace quantities.	
75-21-8 ethylene oxide	
Chemicals known to cause developmental toxicity:	
Present in trace quantities.	
75-21-8 ethylene oxide	
Carcinogenic Categories	
· EPA (Environmental Protection Agency)	
None of the ingredients are listed.	
· IARC (International Agency for Research on Cancer)	
None of the ingredients are listed.	
 TLV (Threshold Limit Value established by ACGIH) 	
None of the ingredients are listed.	
· NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients are listed.	
· Canada	
· Canadian Domestic Substances List (DSL)	
All ingredients are listed.	
· Canadian Ingredient Disclosure list (limit 0.1%)	
None of the ingredients are listed.	
· Canadian Ingredient Disclosure list (limit 1%)	
None of the ingredients are listed.	
· Other regulations, limitations and prohibitive regulations	
This product has been classified in accordance with hazard criteria of the C	ontrolled Products Regulation
and the SDS contains all the information required by the Controlled Products	
\cdot Substances of very high concern (SVHC) according to REACH, Article	57
None of the ingredients are listed.	
· 15.2 Chemical safety assessment: A Chemical SafetyAssessment has no	ot been carried out.
SECTION 16: Other information	
This information is based on our present knowledge. However, this shall no	t constitute a guarantee for

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legallyvalid contractual relationship.

· Relevant phrases

H302	Harmful if swallowed.
H304	Maybe fatal if swallowed and enters airways.
H311	Toxic in contact with skin.

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 H314 Causes severe skin burns and eye damage. (Cond. of page 12 H317 Maycause an allergic skin reaction. H330 Fatal If inhaled. H335 Maycause respiratory/iritation. H372 Causes damage to organs through prolonged or repeated exposure. H400 Verytoxic to aquatic life. H410 Verytoxic to aquatic life with long lasting effects. R32 Harmful if swallowed. R3324 Toxic byinhalation and in contact with skin. R34 Causes burns. R35 Causes severe burns. R37 Iritiating to respiratorysystem. R48202/122 Harmful if swallowed. R48202/122 Harmful if anger of serious damage to health byprolonged exposure. R48202/122 Harmful if anger of serious damage to health byprolonged exposure through inhalation. in contact with skin and if swallowed. R48202/122 Harmful: danger of serious damage to health byprolonged exposure through inhalation. R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmfult: maycause lung damage if swallowed. Abreviationa Marine code for Dangerous Goods by Road) M0C: Intemational Marine code for Dangerous Goods bot for agenerous Goods DOT: US Department of Transportation KH34: Wortigen Masciation and Labelling of Chemicals AcGiH American Conterence of Governmental Austrances CAGH American Overlence of Government Augeriance Statistion and Labelling of Chemicals AcGiH American Conterence of Governmental Mustances CHemical Abstrace Statistion of the American Chemical Society) MH35: Wortigiace Material Substances CAGH Chemical Abstraces (FEACH) CS: Letrado Materia Chemical Substances CAGH Chemical Abstrace (Mission of the American Chemical Society) MH35: Wortigiace Material Chemical Substances CAGH Chemical Abstrace (Statistion of the American Chemical Society) MH35: Wortigiace Material Chemi			
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 R48/20/21/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed. R48/23 Toxic: danger of serious damage to health byprolonged exposure through inhalation. R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R65 Harmful: maycause lung damage if swallowed. Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) INDG: International Arritage of Dangerous Goods by Road) INDG: International Arritage of Classification and Labelling of Chemicals ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European Inventory of Existing Commercial Chemical Substances ELINCS: European Inventory of Existing Commercial Chemical Substances UNCS: Eur			
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Sources SDS Prepared by: ChemTel Inc.	GHS: Globally ACGIH: Ameri European List CAS: Chemica NFPA: Nationa HMIS: Hazard WHMIS: Work DNEL: Derived PNEC: Predic LC50: Lethal o Acute Tox. 4: Acute Tox. 2: Skin Corr. 1B: Skin Sens. 1: STOT RE 1: S STOT RE 1: S STOT RE 1: S STOT RE 1: S STOT RE 2: S Asp. Tox. 1: A Aquatic Acute Aquatic Chrom	 Armonised System of Classification and Labelling of Chemicals ican Conference of Governmental Industrial Hygienists EINECS: entory of Existing Commercial Chemical Substances ELINCS: of Notified Chemical Substances al Abstracts Service (division of the American Chemical Society) al Fire Protection Association (USA) lous Materials Identification System (USA) splace Hazardous Materials Information System (Canada) d No-Effect Level (REACH) ted No-Effect Concentration (REACH) concentration, 50 percent Acute toxicity, Hazard Category 4 Acute toxicity, Hazard Category 2 Skin corrosion/irritation, Hazard Category 1 Specific target organ toxicity - Single exposure, Hazard Category 1 Specific target organ toxicity - Repeated exposure, Hazard Category 2 Spicific target organ toxicity - Repeated exposure, Hazard Category 2 Spicific target organ toxicity - Repeated exposure, Hazard Category 1 Specific target organ toxicity - Repeated exposure, Hazard Category 2 Spicific target organ toxicity - Repeated exposure, Hazard Category 1 Specific target organ toxicity - Repeated exposure, Hazard Category 2 Spicific target organ toxicity - Repeated exposure, Hazard Category 2 Spicific target organ toxicity - Repeated exposure, Hazard Category 1 Specific target organ toxicity - Repeated exposure, Hazard Category 2 Spicific target organ toxicity - Repeated exposure, Hazard Category 1 Hazardous to the aquatic environment - AcuteHazard, Category 1 Hazardous to the aquatic environment - Chronic Hazard, Category 1 	
by: ChemTel Inc.			
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Trade name: I.G.O. 80W90

1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtelinc.com

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11 Drodu	king Ict identifier
	me: I.G.O. 140W
	umber: 3716
1.2 Relev	ant identified uses of the substance or mixture and uses advised against relevant information available.
Applicati	on of the substance / the mixture Lubricant
Manufact ATCO Inte 1401 Baro Marietta, 0 770-424-7	clay Circle,S.E. Ga 30060 7550
ChemTel	gency telephone number: Inc. 3924, +1 (813)248-0585
SECTIO	N 2: Hazards identification
Classifica Classifica (29CFR19 The follow regulation The follow	ification of the substance or mixture ation according to Regulation (EC) No 1272/2008 tions listed also are applicable to the OSHA GHS Hazard Communication Standa 910.1200). wing Hazard Statements are applicable only to the EU regulations and not the US GH : H412. wing classifications are applicable only to OSHA (USA) regulations and not the specific CI : H317.
regulation	
$\overline{\mathbf{A}}$	kin Sens. 1 H317: May cause an allergic skin reaction.
s s	Skin Sens. 1 H317: May cause an allergic skin reaction. hronic 3 H412 Harmful to aquatic life with long lasting effects.

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company. • Additional information:

There are no other hazards not otherwise classified that have been identified.

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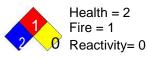
Trade name: I.G.O.140W 0 percent of the mixture consists of component(s) of unknown toxicity · 2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 The product is additionally classified and labelled according to the Globally Harmonized System within the United States (GHS). The product is classified and labelled according to the CLP regulation. Hazard pictograms GHS07 - USA Only. · Signal word Applicable only within the United States(USA) WARNING · Hazard-determining components of labelling: Amines, C12-14-tert-alkyl · Hazard statements The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H412. The following Hazard Statements are applicable only according to OSHA regulations within the United States. These Statements are not applicable for the CLP regulation (1272/2008/EC) in the EU: H317. H317: May cause an allergic skin reaction. H412 Harmful to aquatic life with long lasting effects. Precautionary statements The following Precautionary Statements are applicable only to the OSHA GHS regulations and not the specific CLP regulation: all except P501. P261 Avoid breathing mist/vapours/sprav. P280 Wear protective gloves / eye protection. P363 Wash contaminated clothing before reuse. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P302+P352 IF ON SKIN: Wash with plenty of water. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. · Additional information:

EUH208 Contains Amines, C12-14-tert-alkyl. May produce an allergic reaction.

· Hazard description:

· WHMIS-symbols: Not hazardous under WHMIS.

· NFPA ratings (scale 0 - 4)



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	Trade name: I.G.O. 140W	
Γ	(Contd. of page	ge 2
	· HMIS-ratings (scale 0 - 4)	
	HEALTH 2 Health = 2	
	FIRE I Fire = 1	
	Reactivity= 0	
	· HMIS Long Term Health Hazard Substances	
	None of the ingredients are listed.	
	· 2.3 Other hazards · Results of PBT and vPvB assessment	
	• PBT: Not applicable. •	
	vPvB: Not applicable.	
Г		
	SECTION 3: Composition/information on ingredients	
	· 3.2 Mixtures · Description: Mixture of substances listed below with nonhazardous additions. · Dangerous components:	1
		1%
	EINECS: 273-279-1 STOT RE 1, H372 Skin Corr. 1B, H314 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Acute Tox. 4, H302; Skin Sens. 1, H317	1 70
		1%
	EINECS: 265-161-3 substance with a Community work place exposure limit	
	 Additional information: Note L: The classification as a carcinogen need not apply if it can be shown that the substance contai less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unus lubricating base oils and asphaltene free petroleum fractions - Dimethyl sulphoxide extraction refraction index method', Institute of Petroleum, London. This product meets these requirements. For the listed ingredients, the identityand exact percentages are being withheld as a trade secret. For the wording of the listed risk phrases refer to section 16. 	sed
	• Notable Trace Components (≤ 0,1% w/w)	
	CAS: 112-90-3 EINECS: 204-015-5 Index number: 612-283-00-3 STOT RE 2, H373; Asp. Tox. 1, H304 Skin Corr. 1B, H314 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Acute Tox. 4, H302; STOT SE 3, H335	

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SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact:

Immediately wash with water and soap and rinse

thoroughly. If skin irritation continues, consult a doctor.

- After eye contact: Remove contact lenses if worn. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing:
 Rinse out mouth and then drink plenty of water.

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately. • 4.2 Most important symptoms and effects, both acute and delayed

Allergic reactions

Slight irritant effect on eves.

Gastric or intestinal disorders when

ingested. Nausea in case of ingestion.

- · Hazards Repeated exposure may cause skin dryness or cracking.
- 4.3 Indication of any immediate medical attention and special treatment needed

Treat skin and mucous membrane with antihistamine and corticoid preparations.

Contains Amines, C12-14-tert-alkyl. May produce an allergic reaction.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media
 Suitable extinguishing agents: Carbon dioxide Fireextinguishing powder Foam
 For safety reasons unsuitable extinguishing agents: Water
 5.2 Special hazards arising from the substance or mixture Formation of toxic gases is possible during heating or in case of fire.
 5.3 Advice for firefighters
 Protective equipment: Wear self-contained respiratory protective device. Wear fully protective suit.
- · Additional information No further relevant information available.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
 Wear protective equipment. Keep unprotected persons
 away. Ensure adequate ventilation
 For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.

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Particular danger of slipping on leaked/spilled product.

· 6.2 Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage

system. Prevent from spreading (e.g. by damming-in or oil barriers).

• 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

Send for recovery or disposal in suitable receptacles.

6.4 Reference to other sections
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection
 equipment. See Section 13 for disposal information.

SECTION 7: Handling and storage

• **7.1 Precautions for safe handling** Use only in well ventilated areas. Avoid splashes or spray in enclosed areas.

• Information about fire - and explosion protection: No special measures required.

- 7.2 Conditions for safe storage, including any incompatibilities
 Storage:
- **Requirements to be met by storerooms and receptacles:** Provide ventilation for receptacles. Avoid storage near extreme heat, ignition sources or open flame.
- Information about storage in one common storage facility: Store away from foodstuffs. Store away from oxidizing agents.

• Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.

· 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

· 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

64742-58-1 Lubricating oils, petroleum, hydrotreated spent

PEL (USA) Long-term value: 5 (mist) mg/m³

TLV (USA) Short-term value: 10 (mist) mg/m³

Long-term value: 5 (mist) mg/m³

• DNELs No further relevant information available.

• **PNECs** No further relevant information available.

· Additional information: The lists valid during the making were used as basis.

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(Contd. of page 5) · 8.2 Exposure controls · Personal protective equipment: · General protective and hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin. Respiratory protection: Not required under normal conditions of use. Use suitable respiratory protective device in case of insufficient ventilation. For spills, respiratory protection maybe advisable. · Protection of hands: Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. · Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of guality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. · Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. · Eye protection: Safety glasses Body protection: Oil resistant protective clothing · Limitation and supervision of exposure into the environment No further relevant information available. · Risk management measures See Section 7 for additional information. No further relevant information available. **SECTION 9: Physical and chemical properties** · 9.1 Information on basic physical and chemical properties

- General Information
- · Appearance:
- Form:

Liquid

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Safety Data Sheet according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS

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Colour: · Odour:	Red Petroleum-like	
· Odour threshold:	Not determined.	
· pH-value:	Not determined.	
 Change in condition Melting point/Melting range: 	Not Determined.	
Boiling point/Boiling range:	Undetermined.	
· Flash point:	> 200 °C (> 392 °F)	
 Flammability (solid, gaseous): 	Not applicable.	
 Auto/Self-ignition temperature: 	Not determined.	
· Decomposition temperature:	Not determined.	
· Self-igniting:	Product is not self-igniting.	
 Danger of explosion: 	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
· Vapour pressure:	Not determined.	
 Density at 20 °C (68 °F): 	0,89 g/cm³ (7,427 lbs/gal)	
· Relative density	Not determined.	
· Vapour density	Not determined.	
• Evaporation rate	Not determined.	
 Solubility in / Miscibility with 	Not missible or difficult to miv	
water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/water	: Not determined.	
· Viscosity:		
Dynamic: Kinematic:	Not determined. Not determined.	
· 9.2 Other information	No further relevant information available.	

SECTION 10: Stability and reactivity

· 10.1 Reactivity	
· 10.2 Chemical stability	
 Thermal decomposition / conditions to be avoided: 	
No decomposition if used and stored according to	
specifications. To avoid thermal decomposition do not overheat.	
10.3 Possibility of hazardous reactions	
Toxic fumes maybe released if heated above the decomposition point.	
Reacts with strong acids and oxidizing agents.	
• 10.4 Conditions to avoid Keep away from heat and direct sunlight.	
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• 10.5 Incompatible materials: No further relevant information available.

 to.6 Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrocarbons Nitrogen oxides (NOx)

Phosphorus oxides (e.g. P2O5)

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

· Acute toxicity:

· LD/LC50 values relevant for classification:

68955-53-3 Amines, C12-14-tert-alkyl		
Oral		612 mg/kg (rat) Female
Dermal Inhalative	LD50 LC50/4h ⁻	251 mg/kg (rat) I,19 mg/l (rat) 157 ppm

· Primary irritant effect:

- on the skin: Slight irritant effect on skin and mucous membranes.
- on the eye: Slight irritant effect on eyes.
- · Sensitisation: Sensitising effect byskin contact is possible byprolonged exposure.
- Subacute to chronic toxicity: No further relevant information available.
- · Acute effects (acute toxicity, irritation and corrosivity):
- Maybe harmful if inhaled.

Maybe harmful in contact with skin.

- Repeated dose toxicity: Repeated exposures may result in skin and/or respiratory sensitivity.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction): See Section 15.

SECTION 12: Ecological information

- · 12.1 Toxicity
- Aquatic toxicity: The material is harmful to the environment.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark:
- Harmful to fish

Due to mechanical actions of the product (e.g. agglutinations) damages may occur.

- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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Harmful to aquatic organisms Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.

- 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

• 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Contact waste processors for recycling information.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

· Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information	
· 14.1 UN-Number	
· DOT, ADR, ADN, IMDG, IATA	Not Regulated
• 14.2 UN proper shipping name	Net Degulated
· DOT, ADR, ADN, IMDG, IATA	Not Regulated
• 14.3 Transport hazard class(es)	
· DOT, ADR, ADN, IMDG, IATA	Not Degulated
 Class 14.4 Packing group 	Not Regulated
· DOT, ADR, IMDG, IATA	Not Regulated
14.5 Environmental hazards:	
· Marine pollutant:	No
14.6 Special precautions for user	Not applicable.
 14.7 Transport in bulk according to Annex II MARPOL73/78 and the IBC Code 	
	Not applicable.
 UN "Model Regulation": 	-

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 15.1 Safety, health and environmental regulations/legislation specific for United States (USA) SARA 	the substance or mixtur
 Section 355 (extremely hazardous substances): 	
None of the ingredients are listed.	
· Section 313 (Specific toxic chemical listings):	
None of the ingredients are listed.	
· TSCA (Toxic Substances Control Act):	
All ingredients are listed.	
· Proposition 65 (California):	
Chemicals known to cause cancer:	
Present in trace quantities: All except 64742-58-1. 64742-	
58-1 Lubricating oils, petroleum, hydrotreated spent	
75-56-9 propylene oxide	
75-21-8 ethylene oxide	
140-88-5 ethyl acrylate	
123-91-1 1,4-dioxane	
Chemicals known to cause reproductive toxicity for females: Present in trace quantities.	
75-21-8 ethylene oxide	
Chemicals known to cause reproductive toxicity for males: Present in trace quantities.	
75-21-8 ethylene oxide	
Chemicals known to cause developmental toxicity: Present in trace quantities.	
75-21-8 ethylene oxide	
· Carcinogenic Categories	
· EPA (Environmental Protection Agency)	
None of the ingredients are listed.	
· IARC (International Agency for Research on Cancer)	
None of the ingredients are listed.	
• TLV (Threshold Limit Value established by ACGIH)	
None of the ingredients are listed.	
• NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients are listed.	
· Canada	
Canadian Domestic Substances List (DSL)	

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· Canadian Ingredient Disclosure list (limit 0.1%)

None of the ingredients are listed.

· Canadian Ingredient Disclosure list (limit 1%)

None of the ingredients are listed.

• Other regulations, limitations and prohibitive regulations This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

• Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients are listed.

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

- H302 Harmful if swallowed.
- H311 Toxic in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H330 Fatal if inhaled.
- H372 Causes damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

R22 Harmful if swallowed.

- R23/24 Toxic by inhalation and in contact with
- skin. R34 Causes burns.
- R43 May cause sensitisation by skin contact.
- R48 Danger of serious damage to health by prolonged exposure.
- R48/23 Toxic: danger of serious damage to health by prolonged exposure through inhalation.
- R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) (Contd. on page 12)

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LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent Acute Tox. 4: Acute toxicity, Hazard Category 4 Acute Tox. 3: Acute toxicity, Hazard Category 3 Acute Tox. 2: Acute toxicity, Hazard Category 2 Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B Skin Sens. 1: Sensitisation - Skin, Hazard Category 1 STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1 Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1 Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3 Revision: 10.04.2015

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