

SUPER DIESEL ADDITIVE 300ml

Liqui Moly GmbH

Chemwatch: 47-8465 Version No: 2.1.1.1 Safety Data Sheet

Chemwatch Hazard Alert Code: 2

Issue Date: 12/02/2015 Print Date: 12/03/2015 Initial Date: Not Available S.GHS.CAN.EN

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier

Product name	SUPER DIESEL ADDITIVE 300ml
Synonyms	Item No. 2002
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains naphtha, petroleum, hydrodesulfurised heavy)
Other means of identification	Not Available

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses Additive to lubricating agents.

Details of the manufacturer/importer

Registered company name	Liqui Moly GmbH
Address	Jerg-Wieland-Strasse 4 Ulm D-89081 Germany
Telephone	+49 731 1420 0
Fax	+49 731 1420 82
Website	Not Available
Email	Not Available

Emergency telephone number

Assoc	ciation / Organisation	Not Available
E	Emergency telephone numbers	Not Available
Other 6	emergency telephone numbers	Not Available

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

CHEMWATCH HAZARD RATINGS

	Min	Max
Flammability	1	
Toxicity	2	0 = Minimum
Body Contact	2	1 = Low
Reactivity	2	2 = Moderate
Chronic	0	3 = High 4 = Extreme



CANADIAN WHMIS SYMBOLS





CANADIAN WHMIS CLASSIFICATION

Ingredient	CAS number	Classification Description	Classification Code
naphtha, petroleum, hydrodesulfurised heavy	8032-32-4	Combustible liquid, Flammable Liquid, Toxic Material Causing Other Toxic Effects	B3, B2, D2B

GHS Classification

Flammable Liquid Category 4, Acute Toxicity (Oral) Category 4, Acute Toxicity (Dermal) Category 4, Acute Toxicity (Inhalation) Category 4, Eye Irritation Category 2A, STOT - SE (Narcosis) Category 3, Aspiration Hazard Category 1, Acute Aquatic Hazard Category 2, Chronic Aquatic Hazard Category 2

Label elements

Chemwatch: 47-8465 Version No: 2.1.1.1

Page 2 of 9

SUPER DIESEL ADDITIVE 300ml

Issue Date: 12/02/2015 Print Date: 12/03/2015









SIGNAL WORD

DANGER

Hazard statement(s)

H227	Combustible liquid
H302	Harmful if swallowed
H312	Harmful in contact with skin
H332	Harmful if inhaled
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness
H304	May be fatal if swallowed and enters airways
H401	Toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects

Precautionary statement(s) Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.		
P271	Use only outdoors or in a well-ventilated area.		
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.		
P270	Do not eat, drink or smoke when using this product.		

Precautionary statement(s) Response

P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician/first aider			
P331	IOT induce vomiting.			
P370+P378	In case of fire: Use alcohol resistant foam or normal protein foam for extinction.			
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.				

Precautionary statement(s) Storage

P403+P235	Store in a well-ventilated place. Keep cool.	
P405	Store locked up.	
P403+P233	Store in a well-ventilated place. Keep container tightly closed.	

Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised chemical landfill or if organic to high temperature incineration

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name			
8032-32-4	>60	naphtha, petroleum, hydrodesulfurised heavy			
27247-96-7	10-30	2-ethylhexyl nitrate			
61790-12-3	1-5	tall oil fatty acids			

SECTION 4 FIRST AID MEASURES

D

Description of first aid me	asures
Eye Contact	If this product comes in contact with the eyes: Wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs: ► Immediately remove all contaminated clothing, including footwear. ► Flush skin and hair with running water (and soap if available). ► Seek medical attention in event of irritation.
Inhalation	 If furnes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if

Chemwatch: **47-8465** Page **3** of **9** Issue Date: **12/02/2015**Version No: **2.1.1.1** Print Date: **12/03/2015**

SUPER DIESEL ADDITIVE 300ml

necessary.
 Transport to hospital, or doctor.
 If swallowed do NOT induce vomiting.
 If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.
 Observe the patient carefully.
 Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.
 Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.
 Seek medical advice.
 Avoid giving milk or oils.
 Avoid giving alcohol.
 If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.

Indication of any immediate medical attention and special treatment needed

For acute or short term repeated exposures to petroleum distillates or related hydrocarbons:

- ▶ Primary threat to life, from pure petroleum distillate ingestion and/or inhalation, is respiratory failure.
- Patients should be quickly evaluated for signs of respiratory distress (e.g. cyanosis, tachypnoea, intercostal retraction, obtundation) and given oxygen. Patients with inadequate tidal volumes or poor arterial blood gases (pO2 50 mm Hg) should be intubated.
- Arrhythmias complicate some hydrocarbon ingestion and/or inhalation and electrocardiographic evidence of myocardial injury has been reported; intravenous lines and cardiac monitors should be established in obviously symptomatic patients. The lungs excrete inhaled solvents, so that hyperventilation improves clearance.
- A chest x-ray should be taken immediately after stabilisation of breathing and circulation to document aspiration and detect the presence of pneumothorax.
- Epinephrine (adrenalin) is not recommended for treatment of bronchospasm because of potential myocardial sensitisation to catecholamines. Inhaled cardioselective bronchodilators (e.g. Alupent, Salbutamol) are the preferred agents, with aminophylline a second choice.
- Lavage is indicated in patients who require decontamination; ensure use of cuffed endotracheal tube in adult patients. [Ellenhorn and Barceloux: Medical Toxicology]

Any material aspirated during vomiting may produce lung injury. Therefore emesis should not be induced mechanically or pharmacologically. Mechanical means should be used if it is considered necessary to evacuate the stomach contents; these include gastric lavage after endotracheal intubation. If spontaneous vomiting has occurred after ingestion, the patient should be monitored for difficult breathing, as adverse effects of aspiration into the lungs may be delayed up to 48 hours.

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

- Foam
- Dry chemical powder.
- ▶ BCF (where regulations permit).
- Carbon dioxide.

Special hazards arising from the substrate or mixture

Fire Incompatibility

▶ Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

Advice for firefighters

Fire Fighting

- ▶ Alert Fire Brigade and tell them location and nature of hazard.
- ▶ Wear full body protective clothing with breathing apparatus.
- ► Prevent, by any means available, spillage from entering drains or water course.
- ▶ Use water delivered as a fine spray to control fire and cool adjacent area
- Fire/Explosion Hazard
- Combustible.Slight fire hazard when exposed to heat or flame.
- ▶ Heating may cause expansion or decomposition leading to violent rupture of containers
- ▶ On combustion, may emit toxic fumes of carbon monoxide (CO).

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Minor Spills

Environmental hazard - contain spillage.

- ▶ Clean up all spills immediately.
- Avoid breathing vapours and contact with skin and eyes.
- ▶ Control personal contact with the substance, by using protective equipment.

Major Spills

Environmental hazard - contain spillage. Moderate hazard.

- Clear area of personnel and move upwind.
- Alert Fire Brigade and tell them location and nature of hazard.

Personal Protective Equipment advice is contained in Section 8 of the MSDS.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

Safe handling

- ▶ Containers, even those that have been emptied, may contain explosive vapours.
- Do NOT cut, drill, grind, weld or perform similar operations on or near containers.
- ▶ DO NOT allow clothing wet with material to stay in contact with skin
- ▶ Electrostatic discharge may be generated during pumping this may result in fire.
- ▶ Ensure electrical continuity by bonding and grounding (earthing) all equipment.

Other information

- ▶ Store in original containers.
- Keep containers securely sealed.
- ▶ Store in a cool, dry, well-ventilated area.
- Store away from incompatible materials and foodstuff containers.

Issue Date: 12/02/2015 Chemwatch: 47-8465 Page 4 of 9 Version No: 2.1.1.1 Print Date: 12/03/2015

SUPER DIESEL ADDITIVE 300ml

Conditions for safe storage, including any incompatibilities

Suitable container

- ▶ Metal can or drum
- Packaging as recommended by manufacturer.
 Check all containers are clearly labelled and free from leaks.

Storage incompatibility

• Avoid any contamination of this material as it is very reactive and any contamination is potentially hazardous

Avoid storage with reducing agents.

PACKAGE MATERIAL INCOMPATIBILITIES

Not Available

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Canada - Yukon Permissible Concentrations for Airborne Contaminant Substances	naphtha, petroleum, hydrodesulfurised heavy	Naphtha (coal tar) / Rubber solvent (Naphtha)	1,800 mg/m3 / 400 ppm	2,250 mg/m3 / 500 ppm	Not Available	Not Available
Canada - Yukon Permissible Concentrations for Airborne Contaminant Substances	naphtha, petroleum, hydrodesulfurised heavy	Stoddard solvent	575 mg/m3 / 100 ppm	720 mg/m3 / 150 ppm	Not Available	Not Available
Canada - Saskatchewan Occupational Health and Safety Regulations - Contamination Limits	naphtha, petroleum, hydrodesulfurised heavy	Rubber solvent (Naphtha)	400 ppm	500 ppm	Not Available	Not Available
Canada - Saskatchewan Occupational Health and Safety Regulations - Contamination Limits	naphtha, petroleum, hydrodesulfurised heavy	VM and P Naphtha	300 ppm	375 ppm	Not Available	Not Available
Canada - Saskatchewan Occupational Health and Safety Regulations - Contamination Limits	naphtha, petroleum, hydrodesulfurised heavy	Stoddard solvent	100 ppm	125 ppm	Not Available	Not Available
Canada - Saskatchewan Occupational Health and Safety Regulations - Designated Chemical Substances	naphtha, petroleum, hydrodesulfurised heavy	Mineral oils, untreated and mildly treated	Not Available	Not Available	Not Available	Not Available
Canada - Northwest Territories Occupational Exposure Limits (English)	naphtha, petroleum, hydrodesulfurised heavy	Rubber solvent (naphtha)	1600 mg/m3 / 400 ppm	2000 mg/m3 / 500 ppm	Not Available	Not Available
Canada - Northwest Territories Occupational Exposure Limits (English)	naphtha, petroleum, hydrodesulfurised heavy	VM & P Naphtha	1350 mg/m3 / 300 ppm	1800 mg/m3 / 400 ppm	Not Available	Not Available
Canada - Northwest Territories Occupational Exposure Limits (English)	naphtha, petroleum, hydrodesulfurised heavy	Stoddard solvent	575 mg/m3 / 100 ppm	720 mg/m3 / 125 ppm	Not Available	Not Available
Canada - Nova Scotia Occupational Exposure Limits	naphtha, petroleum, hydrodesulfurised heavy	Stoddard solvent	100 ppm	Not Available	Not Available	TLV Basis: eye, skin & skidney damage; nausea; central nervous system impairment
Canada - Prince Edward Island Occupational Exposure Limits	naphtha, petroleum, hydrodesulfurised heavy	Stoddard solvent	100 ppm	Not Available	Not Available	TLV® Basis: Eye, skin, & kidney dam; nausea; CNS impair
Canada - Quebec Permissible Exposure Values for Airborne Contaminants (English)	naphtha, petroleum, hydrodesulfurised heavy	Petroleum distillates	Not Available	Not Available	Not Available	Not Available
Canada - Quebec Permissible Exposure Values for Airborne Contaminants (English)	naphtha, petroleum, hydrodesulfurised heavy	Rubber solvent (Naphtha) / Naphtha	1590 mg/m3 / 400 ppm	Not Available	Not Available	Not Available
Canada - Quebec Permissible Exposure Values for Airborne Contaminants (English)	naphtha, petroleum, hydrodesulfurised heavy	VM&P Naphtha	1370 mg/m3 / 300 ppm	Not Available	Not Available	Not Available
Canada - Quebec Permissible Exposure Values for Airborne Contaminants (English)	naphtha, petroleum, hydrodesulfurised heavy	Stoddard solvent	525 mg/m3 / 100 ppm	Not Available	Not Available	Not Available
Canada - Alberta Occupational Exposure Limits	naphtha, petroleum, hydrodesulfurised heavy	Naphtha (Rubber solvent)	1590 mg/m3 / 400 ppm	Not Available	Not Available	Not Available
Canada - Alberta Occupational Exposure Limits	naphtha, petroleum, hydrodesulfurised heavy	VM & P Naphtha	1400 mg/m3 / 300 ppm	Not Available	Not Available	Not Available
Canada - Alberta Occupational Exposure Limits	naphtha, petroleum, hydrodesulfurised heavy	Stoddard solvent	572 mg/m3 / 100 ppm	Not Available	Not Available	Not Available

Version No: 2.1.1.1

SUPER DIESEL ADDITIVE 300ml

Issue Date: 12/02/2015 Print Date: 12/03/2015

Canada - British Columbia Occupational Exposure Limits	naphtha, petroleum, hydrodesulfurised heavy	Rubber solvent (Naphtha)	Not Available	Not Available	Not Available	(H) - reciprocal calculation method, see OHS Guideline G5.48-12.
Canada - British Columbia Occupational Exposure Limits	naphtha, petroleum, hydrodesulfurised heavy	VM & P Naphtha Revised 2009	Not Available	Not Available	Not Available	(H) - reciprocal calculation method, see OHS Guideline G5.48-12.
Canada - British Columbia Occupational Exposure Limits	naphtha, petroleum, hydrodesulfurised heavy	Stoddard solvent (mineral spirits)	290 mg/m3 mg/m3	580 mg/m3 mg/m3	Not Available	Not Available

EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
naphtha, petroleum, hydrodesulfurised heavy	Naphtha, hydrotreated heavy; (Isopar L-rev 2)	171 ppm	171 ppm	570 ppm
naphtha, petroleum, hydrodesulfurised heavy	Solvent naphtha, petroleum, medium aliphatic; (Mineral spirits, naphtha)	0.32 mg/m3	3.5 mg/m3	21 mg/m3
naphtha, petroleum, hydrodesulfurised heavy	Rubber solvent; (Naphtha (petroleum) light aliphatic)	264 ppm	1700 ppm	10000 ppm
naphtha, petroleum, hydrodesulfurised heavy	Petroleum distillates; (Petroleum crude oil)	87.5 ppm	450 ppm	10000 ppm
naphtha, petroleum, hydrodesulfurised heavy	Naphtha (coal tar); (Naphtha [petroleum] light aliphatic; Aliphatic naphtha)	300 ppm	1700 ppm	10000 ppm
naphtha, petroleum, hydrodesulfurised heavy	Petroleum spirits; (VM & P Naphtha, Ligroine, Paint solvent)	75 ppm	400 ppm	400 ppm
naphtha, petroleum, hydrodesulfurised heavy	Stoddard solvent; (Mineral spirits, 85% nonane and 15% trimethyl benzene)	100 ppm	350 ppm	29500 ppm

Ingredient	Original IDLH	Revised IDLH
naphtha, petroleum, hydrodesulfurised heavy	29,500 mg/m3 / 10,000 ppm / 10,000 [LEL] ppm	20,000 mg/m3 / 1,100 [LEL] ppm / 1,000 [LEL] ppm
2-ethylhexyl nitrate	Not Available	Not Available
tall oil fatty acids	Not Available	Not Available

Exposure controls

Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.

Personal protection











Eye and face protection

- Safety glasses with side shields.
- Chemical goggles.
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

Skin protection

See Hand protection below

- ▶ Wear chemical protective gloves, e.g. PVC.
- Wear safety footwear or safety gumboots, e.g. Rubber

Hands/feet protection

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical 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.

The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.

Body protection

See Other protection below

Other protection

- Overalls.
- P.V.C. apron.Barrier cream.
- Thermal hazards
- Not Available

Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

SUPER DIESEL ADDITIVE 300ml Not Available

* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

Respiratory protection

Type A-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required.

Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	Air-line*	A-2 P2	A-PAPR-2 P2 ^
up to 20 x ES	-	A-3 P2	-

Chemwatch: 47-8465 Page 6 of 9 Version No: 2.1.1.1

SUPER DIESEL ADDITIVE 300ml

Issue Date: 12/02/2015 Print Date: 12/03/2015

NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

 * Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

20+ x ES	_	Air-line**	_
201 X 20		7 111 11110	

* - Continuous-flow; ** - Continuous-flow or positive pressure demand

^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Brown colour liquid with characteristic odour; not miscible with water.		
Physical state	Liquid	Relative density (Water = 1)	0.841
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Applicable	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	<7
Initial boiling point and boiling range (°C)	145	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	63	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Combustible.	Oxidising properties	Not Available
Upper Explosive Limit (%)	7	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	0.6	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Immiscible	pH as a solution	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	 Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Inhaled	Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be harmful. Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo. There is some evidence to suggest that the material can cause respiratory irritation in some persons.
Ingestion	Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual. Swallowing of the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis; serious consequences may result. (ICSC13733) Ingestion of petroleum hydrocarbons can irritate the pharynx, oesophagus, stomach and small intestine, and cause swellings and ulcers of the mucous. Symptoms include a burning mouth and throat; larger amounts can cause nausea and vomiting, narcosis, weakness, dizziness, slow and shallow breathing, abdominal swelling, unconsciousness and convulsions.
Skin Contact	Skin contact with the material may be harmful; systemic effects may result following absorption. Repeated exposure may cause skin cracking, flaking or drying following normal handling and use. There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons. Open cuts, abraded or irritated skin should not be exposed to this material The material may accentuate any pre-existing dermatitis condition Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects.
Еуе	This material can cause eye irritation and damage in some persons. Direct eye contact with petroleum hydrocarbons can be painful, and the corneal epithelium may be temporarily damaged. Aromatic species can cause irritation and excessive tear secretion.

Chemwatch: 47-8465 Page 7 of 9 Issue Date: 12/02/2015 Version No: 2.1.1.1

SUPER DIESEL ADDITIVE 300ml

Print Date: 12/03/2015

Chronic

Prolonged or repeated skin contact may cause drying with cracking, irritation and possible dermatitis following. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

Constant or exposure over long periods to mixed hydrocarbons may produce stupor with dizziness, weakness and visual disturbance, weight loss and anaemia, and reduced liver and kidney function. Skin exposure may result in drying and cracking and redness of the skin.

	1			
SUPER DIESEL ADDITIVE	TOXICITY	IRRITATION		
300ml	Not Available	Not Available		
	TOXICITY	IRRITATION		
naphtha, petroleum,	Dermal (rabbit) LD50: >1900 mg/kg*n ^[1]	Not Available		
hydrodesulfurised heavy	Inhalation (rat) LC50: >1400 ppm/8H ^[2]			
	Inhalation (rat) LC50: 3400 ppm/4H ^[2]			
	TOXICITY	IRRITATION		
	dermal (rat) LD50: >4820 mg/kg] ^[2]	[Ethyl Corp]		
2-ethylhexyl nitrate	Oral (rat) LD50: >9600 mg/kg ^[1]	[Ethyl Corp]		
		[Nalco]		
	TOXICITY	IRRITATION		
	Oral (rat) LD50: 7600 mg/kg* ^[2]	(tall oil rosin) [l	(tall oil rosin) [Manufacturer]	
tall oil fatty acids		*MeadWestvac	no MSDS	
		Eye : Mild: (effe	ects reversible in less than 72 hours) *	
		Skin : Mild (effe	ects reversible in less than 72 hours) *	
Legend:	Value obtained from Europe ECHA Registered Subsextracted from RTECS - Register of Toxic Effect of che	-	from manufacturer's msds Unless otherwise specified dat	
NAPHTHA, PETROLEUM, HYDRODESULFURISED HEAVY	No significant acute toxicological data identified in lit	erature search.		
2-ETHYLHEXYL NITRATE	Chemical with the aliphatic nitro group (-C-NO2) hav (NTP, U.S. Dept Health and Human Services) for po		bgroups recognised by the National Toxicological Progra	
TALL OIL FATTY ACIDS	Oleic acid, a component of tall oil fatty acid causes ch	nromosome aberrations in yeast		
Acute Toxicity	✓	Carcinogenicity	0	
Skin Irritation/Corrosion	0	Reproductivity	0	
Serious Eye Damage/Irritation	~	STOT - Single Exposure	~	
Respiratory or Skin sensitisation	0	STOT - Repeated Exposure	0	

Legend:

✓ – Data required to make classification available

Data available but does not fill the criteria for classification

Not Available to make classification

CMR STATUS

Not Applicable

SECTION 12 ECOLOGICAL INFORMATION

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

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
	No Data available for all ingredients	No Data available for all ingredients

Bioaccumulative potential

Ingredient	Bioaccumulation
	No Data available for all ingredients

Mobility in soil

Chemwatch: 47-8465 Version No: 2.1.1.1

Page 8 of 9

SUPER DIESEL ADDITIVE 300ml

Issue Date: 12/02/2015 Print Date: 12/03/2015

Ingredient	Mobility
	No Data available for all ingredients

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product / Packaging disposal

- ▶ Containers may still present a chemical hazard/ danger when empty.
- ▶ Return to supplier for reuse/ recycling if possible.
- Otherwise:
- ▶ If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.
- ▶ Where possible retain label warnings and MSDS and observe all notices pertaining to the product.

SECTION 14 TRANSPORT INFORMATION

Labels Required



Marine Pollutant



Land transport (TDG)

UN number	3082		
Packing group	III		
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains naphtha, petroleum, hydrodesulfurised heavy)		
Environmental hazard	No relevant data		
Transport hazard class(es)	Class 9 Subrisk Not Applicable		
Special precautions for user	Special provisions Explosive Limit and Limited Quantity Index ERAP Index	16 5 Not Applicable	

Air transport (ICAO-IATA / DGR)

UN number	3082			
Packing group				
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. * (contains naphtha, petroleum, hydrodesulfurised heavy)			
Environmental hazard	No relevant data			
Transport hazard class(es)	ICAO/IATA Class 9 ICAO / IATA Subrisk Not Applicable ERG Code 9L			
Special precautions for user	Special provisions Cargo Only Packing Instructions Cargo Only Maximum Qty / Pack Passenger and Cargo Packing Instructions Passenger and Cargo Maximum Qty / Pack Passenger and Cargo Limited Quantity Packing Instructions Passenger and Cargo Limited Maximum Qty / Pack	A97 A158 A197 964 450 L 964 450 L Y964 30 kg G		

Sea transport (IMDG-Code / GGVSee)

UN number	3082	
Packing group		
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains naphtha, petroleum, hydrodesulfurised heavy)	
Environmental hazard	Not Applicable	

Chemwatch: **47-8465** Page **9** of **9** Issue Date: **12/02/2015**Version No: **2.1.1.1** Print Date: **12/03/2015**

SUPER DIESEL ADDITIVE 300ml

Transport hazard class(es)	IMDG Class IMDG Subrisk	
	ı	F-A , S-F
Special precautions for user	Special provisions	274 335
	Limited Quantities	5 L

Transport in bulk according to Annex II of MARPOL 73 / 78 and the IBC code

Source	Ingredient	Pollution Category
IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk	naphtha, petroleum, hydrodesulfurised heavy	Υ
IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk	2-ethylhexyl nitrate	Υ
IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk	tall oil fatty acids	Υ

SECTION 15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation specific for the substance or mixture

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

naphtha, petroleum, hydrodesulfurised heavy(8032-32-4) is found on the following regulatory lists "Canada Domestic Substances List (DSL)","Canada - British Columbia Occupational Exposure Limits","Canada Forensic Identification Services Chemical Carcinogenicity Evaluation - Table 1 - Chemicals Considered for Assessment (French)","Canada - Prince Edward Island Occupational Exposure Limits","Canada - Saskatchewan Occupational Health and Safety Regulations - Designated Chemical Substances","International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs", "Canada - Northwest Territories Occupational Exposure Limits (English)", "Canada - Yukon Permissible Concentrations for Airborne Contaminant Substances", "International Air Transport Association (IATA) Dangerous Goods Regulations - Prohibited List Passenger and Cargo Aircraft", "Canada - Saskatchewan Occupational Health and Safety Regulations - Contamination Limits", "Canada - Nova Scotia Occupational Exposure Limits", "Canada Categorization decisions for all DSL substances", "Canada Forensic Identification Services Chemical Carcinogenicity Evaluation - Table 1 - Chemicals Considered for Assessment (English)", "Canada - Quebec Permissible Exposure Values for Airborne Contaminants (French)", "Canada - Alberta Occupational Exposure Limits"

2-ethylhexyl nitrate(27247-96-7) is found on the following regulatory lists

"Canada Domestic Substances List (DSL)", "Canada Categorization decisions for all DSL substances"

tall oil fatty acids(61790-12-3) is found on the following regulatory lists

"Canada Domestic Substances List (DSL)", "Canada Categorization decisions for all DSL substances"

SECTION 16 OTHER INFORMATION

Other information

Ingredients with multiple cas numbers

Name	CAS No	
naphtha, petroleum, hydrodesulfurised heavy	101795-02-2., 1030262-12-4., 121448-83-7., 50813-73-5., 54847-97-1., 61789-95-5., 64741-92-0., 64742-48-9., 64742-82-1., 64742-88-7., 64742-89-8., 8002-05-9., 8030-30-6., 8030-31-7., 8031-06-9., 8031-38-7., 8031-39-8., 8032-32-4., 8052-41-3.	
tall oil fatty acids	61790-12-3, 68187-99-5	

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

A list of reference resources used to assist the committee may be found at:

www.chemwatch.net/references

The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

This document is copyright. Apart from any fair dealing for the purposes of private study, research, review or criticism, as permitted under the Copyright Act, no part may be reproduced by any process without written permission from CHEMWATCH. TEL (+61 3) 9572 4700.