

Supersedes date 26-Feb-2025

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Revision Number 1

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

**Product Code(s)** 2858762  
**Product Name** Scania grease  
**Synonyms** None  
**Pure substance/mixture** Mixture

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

**Recommended use** Engine oil  
For professional use only

**Uses advised against** No information available

**1.3. Details of the supplier of the safety data sheet****Supplier**

Scania CV AB  
151 87 Sodertalje  
Sweden  
TEL: +46855381000  
For further information, please contact

**E-mail address** sds@scania.com

**1.4. Emergency telephone number**

Emergency Telephone +46855381000 Office Hours: 8:00 - 1700

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture**

Classification according to Regulation (EC) No. 1272/2008 [CLP]

<b>Hazardous to the aquatic environment - chronic</b>	Category 2 - (H411)
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**2.2. Label elements****Hazard statements**

H411 - Toxic to aquatic life with long lasting effects

**Precautionary statements**

P273 - Avoid release to the environment

P391 - Collect spillage

P501 - Dispose of contents and container in accordance with local, regional, national, and international regulations as applicable

### 2.3. Other hazards

May be harmful if swallowed.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

Chemical name	Weight-%	REACH registration number	EC No (EU Index No)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Distillates, petroleum, hydrotreated heavy naphthenic 64742-52-5	20 - 30	01-2119467170-45	265-155-0 (649-465-00-7)	Carc. 1B (H350) (*L)	-	-	-
Nonanedioic acid, dilithium salt 38900-29-7	1 - 5	01-2120119814-57	254-184-4	Acute Tox. 4 (H302)	-	-	-
Phosphorothioic acid, O,O,O-triphenyl ester 597-82-0	1 - < 2.5	01-2119979545-21	209-909-9	Aquatic Chronic 1 (H410)	-	-	10

**Full text of H- and EUH-phrases: see section 16**

### Additional information

\* contains one or more of the following CAS-numbers (REACH registration numbers): 64742-53-6 (01-2119480375-34), 64742-54-7 (01-2119484627-25), 64742-55-8 (01-2119487077-29), 64742-56-9 (01-2119480132-48), 64742-65-0 (01-2119471299-27), 68037-01-4 (01-2119486452-34), 72623-86-0 (01-2119474878-16), 72623-87-1 (01-2119474889-13), 8042-47-5 (01-2119487078-27), 848301-69-9 (01-0000020163-82), 68649-12-7 (01-2119527646-33), 151006-60-9 (01-2119523580-47), 163149-28-8 (01-2119543695-30). Note L - The harmonized classification as a carcinogen applies unless it can be shown that the substance contains less than 3 % of dimethyl sulphoxide 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), in which case a classification in accordance with Title II of this Regulation shall be performed also for that hazard class.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Inhalation

Remove to fresh air.

#### Eye contact

Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if symptoms occur.

#### Skin contact

Wash skin with soap and water. Get medical attention if symptoms occur.

#### Ingestion

Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a doctor.

**4.2. Most important symptoms and effects, both acute and delayed**

Symptoms	None known.
Effects of Exposure	See Section 11 for additional Toxicological Information.

**4.3. Indication of any immediate medical attention and special treatment needed**

Note to doctors	Treat symptomatically.
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**SECTION 5: Firefighting measures****5.1. Extinguishing media**

Suitable Extinguishing Media	Dry chemical, CO2, alcohol-resistant foam or water spray.
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Unsuitable extinguishing media	High volume water jet.
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**5.2. Special hazards arising from the substance or mixture**

Specific hazards arising from the chemical	None known.
Hazardous combustion products	Carbon oxides. Nitrogen oxides (NOx). Oxides of sulphur. Phosphorus oxides. Metal oxides.

**5.3. Advice for firefighters**

Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.
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**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Personal precautions	Ensure adequate ventilation. Evacuate personnel to safe areas. Do not breathe vapour or mist. Avoid contact with skin and eyes. Use personal protective equipment as required.
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For emergency responders	Use personal protection recommended in Section 8.
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**6.2. Environmental precautions**

Environmental precautions	Should not be released into the environment. Do not allow to enter into soil/subsoil. Keep out of drains, sewers, ditches and waterways. Do not allow material to contaminate ground water system.
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**6.3. Methods and material for containment and cleaning up**

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Pick up and transfer to properly labelled containers.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.

**6.4. Reference to other sections**

Reference to other sections	See section 8 for more information. See section 13 for more information.
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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

<b>Advice on safe handling</b>	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin and eyes. Use personal protection equipment.
<b>General hygiene considerations</b>	Do not eat, drink or smoke when using this product. Wash hands before breaks and after work.

### 7.2. Conditions for safe storage, including any incompatibilities

<b>Storage Conditions</b>	Keep in a dry, cool and well-ventilated place. Keep/store only in original container. Keep container closed when not in use. Keep in properly labelled containers. Store in accordance with local regulations. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.
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### 7.3. Specific end use(s)

#### Specific use(s)

See section 1 for more information.

**Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure Limits

Chemical name	Israel	ACGIH TLV
Distillates, petroleum, hydrotreated heavy naphthenic	TWA: 5 mg/m <sup>3</sup> inhalable fraction	TWA: 5 mg/m <sup>3</sup> inhalable particulate matter excluding metal working fluids, highly & severely refined

**Biological occupational exposure limits** This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

#### Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
Octadecanoic acid, 12-hydroxy-, monolithium salt 7620-77-1	-	0.172 mg/cm <sup>2</sup> [5] [6]	-
Phosphorothioic acid, O,O,O-triphenyl ester 597-82-0	-	0.4 mg/kg bw/day [4] [6]	1.39 mg/m <sup>3</sup> [4] [6]
Amines, C11-14-branched alkyl, monoheptyl and diheptyl phosphates 80939-62-4	-	0.03 mg/kg bw/day [4] [6]	0.2 mg/m <sup>3</sup> [4] [6]

#### Notes

[4] Systemic health effects.

[5] Local health effects.  
[6] Long term.

**Derived No Effect Level (DNEL) - General Public**

Chemical name	Oral	Dermal	Inhalation
Octadecanoic acid, 12-hydroxy-, monolithium salt 7620-77-1	-	0.086 mg/cm <sup>2</sup> [5] [6]	-
Nonanedioic acid, dilithium salt 38900-29-7	-	0.023 mg/cm <sup>2</sup> [5] [6]	-
Phosphorothioic acid, O,O,O-triphenyl ester 597-82-0	0.2 mg/kg bw/day [4] [6]	-	0.34 mg/m <sup>3</sup> [4] [6]
Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates 80939-62-4	0.01 mg/kg bw/day [4] [6]	-	0.05 mg/m <sup>3</sup> [4] [6]

**Notes**

[4] Systemic health effects.  
[5] Local health effects.  
[6] Long term.  
[7] Short term.

**Predicted No Effect Concentration (PNEC)**

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
Distillates, petroleum, hydrotreated heavy naphthenic 64742-52-5	9.33 mg/kg food		9.33 mg/kg food	-	-
Nonanedioic acid, dilithium salt 38900-29-7	0.023 mg/L	0.23 mg/L	0.0023 mg/L	-	-
Benzenamine, 4-(1,1,3,3-tetramethylbutyl)-N-[4-(1,1,3,3-tetramethylbutyl)phenyl]- 15721-78-5	0.0199 ng/L	0.039 ng/L	0.00199 ng/L	0.0039 ng/L	-
Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates 80939-62-4	0.055 mg/L	0.01 mg/L	0.0055 mg/L	-	-

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
Benzenamine, 4-(1,1,3,3-tetramethylbutyl)-N-[4-(1,1,3,3-tetramethylbutyl)phenyl]- 15721-78-5	4.67 µg/kg sediment dw	0.467 µg/kg sediment dw	-	0.934 µg/kg soil dw	-
Phosphorothioic acid, O,O,O-triphenyl ester 597-82-0	-	-	10 mg/L	2.46 mg/kg soil dw	-
Amines, C11-14-branched	239.64 mg/kg	23.964 mg/kg	1 mg/L	47.76 mg/kg soil dw	-

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
alkyl, monoethyl and diethyl phosphates 80939-62-4	sediment dw	sediment dw			

**8.2. Exposure controls****Engineering controls**

Showers  
Eyewash stations  
Ventilation systems.

**Personal protective equipment****Eye/face protection**

Wear safety glasses with side shields (or goggles). Eye protection must conform to standard EN 166.

**Hand protection**

Nitrile rubber. Gloves must conform to standard EN 374. Repeated or prolonged contact: The breakthrough time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case.

**Skin and body protection**

Wear suitable protective clothing.

**Respiratory protection**

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Environmental exposure controls**

Local authorities should be advised if significant spillages cannot be contained.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Appearance	Beige, paste
Physical state	Solid
Colour	Beige
Odour	Characteristic.
Odour threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Melting point / freezing point		No data available
Initial boiling point and boiling range		No data available
Flammability		Combustible solid
Flammability Limit in Air		
Upper flammability or explosive limits		No data available
Lower flammability or explosive limits		No data available
Flash point		Not applicable
Autoignition temperature		No data available
Decomposition temperature		No data available
SADT (°C)		No data available
pH		Not applicable
pH (as aqueous solution)		No data available
Kinematic viscosity	> 20.5 mm <sup>2</sup> /s	@ 40 °C
Dynamic viscosity		No data available
Water solubility	Insoluble	
Solubility(ies)		No data available
Partition coefficient		No data available

Vapour pressure	< 0,001 hPa	@ 20 °C
Relative density	0.85 g/cm3	@20°C
Bulk density		No data available
Liquid Density		No data available
Relative vapour density		No data available
Particle characteristics		
Particle Size		No data available
Particle Size Distribution		No data available

**9.2. Other information**

Molecular weight	No information available
VOC content	No information available
Softening point	No information available
Pour Point	-45 °C

**9.2.1. Information with regards to physical hazard classes**

No information available	
Explosive properties	Not an explosive

**9.2.2. Other safety characteristics**

No information available

**SECTION 10: Stability and reactivity****10.1. Reactivity**

Reactivity	No information available.
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**10.2. Chemical stability**

Stability	Stable under normal conditions.
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**Explosion data**

Sensitivity to mechanical impact	None.
Sensitivity to static discharge	None.

**10.3. Possibility of hazardous reactions**

Possibility of hazardous reactions	None under normal processing.
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**10.4. Conditions to avoid**

Conditions to avoid	None known based on information supplied.
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**10.5. Incompatible materials**

Incompatible materials	None known based on information supplied.
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**10.6. Hazardous decomposition products**

Hazardous decomposition products	None known based on information supplied.
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**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Information on likely routes of exposure****Product Information**

Inhalation	Specific test data for the substance or mixture is not available.
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<b>Eye contact</b>	Specific test data for the substance or mixture is not available.
<b>Skin contact</b>	Specific test data for the substance or mixture is not available.
<b>Ingestion</b>	Specific test data for the substance or mixture is not available. May be harmful if swallowed.

**Symptoms related to the physical, chemical and toxicological characteristics**

<b>Symptoms</b>	None known.
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**Acute toxicity****Numerical measures of toxicity****The following ATE values have been calculated for the mixture**

<b>ATEmix (oral)</b>	> 2,000 mg/kg
<b>ATEmix (dermal)</b>	> 5,000 mg/kg

**Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Distillates, petroleum, hydrotreated heavy naphthenic	> 5000 mg/kg ( Rat )	> 5000 mg/kg ( Rabbit )	-
Phosphorothioic acid, O,O,O-triphenyl ester	-	> 2000 mg/kg ( Rat )	-

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Skin corrosion/irritation</b>	No information available.
<b>Serious eye damage/eye irritation</b>	No information available.
<b>Respiratory or skin sensitisation</b>	No information available.
<b>Germ cell mutagenicity</b>	No information available.

<b>Carcinogenicity</b>	The classification listed below for the petroleum distillates in this product pertains to those that contain more than 3% DMSO extract as measured by IP 346. The petroleum distillates in this product do not meet that criteria to be classified as carcinogens.
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The table below indicates whether each agency has listed any ingredient as a carcinogen

Chemical name	European Union	Israel
Distillates, petroleum, hydrotreated heavy naphthenic	Carc. 1B	Group 1

**Legend****Israel**

Group 1 - Carcinogenic to Humans

<b>Reproductive toxicity</b>	No information available.
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**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

## **11.2. Information on other hazards**

### **11.2.1. Endocrine disrupting properties**

**Endocrine disrupting properties** No information available.

### **11.2.2. Other information**

**Other adverse effects** No information available.

## **SECTION 12: Ecological information**

### **12.1. Toxicity**

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Distillates, petroleum, hydrotreated heavy naphthenic	-	LC50: >5000mg/L (96h, Oncorhynchus mykiss)	-	EC50: >1000mg/L (48h, Daphnia magna)
Nonanedioic acid, dilithium salt	-	LC50: >100mg/L (96h, Oncorhynchus mykiss)	-	EC50: >100mg/L (48h, Daphnia magna)
Phosphorothioic acid, O,O,O-triphenyl ester	-	LC50: >100mg/L (96h, Danio rerio)	-	-

### **12.2. Persistence and degradability**

**Persistence and degradability** No information available.

### **12.3. Bioaccumulative potential**

**Bioaccumulation**

#### **Component Information**

Chemical name	Partition coefficient
Nonanedioic acid, dilithium salt	-3.3
Phosphorothioic acid, O,O,O-triphenyl ester	5

### **12.4. Mobility in soil**

**Mobility in soil**

### **12.5. Results of PBT and vPvB assessment**

**PBT and vPvB assessment** The product does not contain any substance(s) classified as PBT or vPvB above the threshold of declaration.

Chemical name	PBT and vPvB assessment
Distillates, petroleum, hydrotreated heavy naphthenic	The substance is not PBT / vPvB

Nonanedioic acid, dilithium salt	The substance is not PBT / vPvB
Phosphorothioic acid, O,O,O-triphenyl ester	The substance is not PBT / vPvB

**12.6. Endocrine disrupting properties**

**Endocrine disrupting properties** No information available.

**12.7. Other adverse effects**

No information available.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

**SECTION 14: Transport information****IATA**

**14.1 UN number or ID number** UN3077

**14.2 UN proper shipping name** Environmentally hazardous substances, solid, n.o.s. (Phosphorothioic acid, O,O,O-triphenyl ester)

**14.3 Transport hazard class(es)** 9

**14.4 Packing group** III

**Description** UN3077, Environmentally hazardous substances, solid, n.o.s. (Phosphorothioic acid, O,O,O-triphenyl ester), 9, III

**14.5 Environmental hazards** Yes

**14.6 Special precautions for user**

**Special Provisions** A97, A158, A179, A197, A215

**ERG Code** 9L

**IMDG**

**14.1 UN number or ID number** UN3077

**14.2 UN proper shipping name** Environmentally hazardous substances, solid, n.o.s. (Phosphorothioic acid, O,O,O-triphenyl ester)

**14.3 Transport hazard class(es)** 9

**14.4 Packing group** III

**Description** UN3077, Environmentally hazardous substances, solid, n.o.s. (Phosphorothioic acid, O,O,O-triphenyl ester), 9, III, Marine pollutant

**14.5 Environmental hazards** Yes

**14.6 Special precautions for user**

**Special Provisions** 274, 335, 966, 967, 969

**EmS-No.** F-A, S-F

**14.7 Maritime transport in bulk according to IMO instruments** No information available

**RID**

**14.1 UN number or ID number** UN3077

**14.2 UN proper shipping name** Environmentally hazardous substances, solid, n.o.s. (Phosphorothioic acid, O,O,O-triphenyl ester)

**14.3 Transport hazard class(es)** 9

**14.4 Packing group** III

<b>Description</b>	UN3077, Environmentally hazardous substances, solid, n.o.s. (Phosphorothioic acid, O,O,O-triphenyl ester), 9, III
<b>14.5 Environmental hazards</b>	Yes
<b>14.6 Special precautions for user</b>	
<b>Special Provisions</b>	274, 335, 375, 601
<b>Classification code</b>	M7
<b>ADR</b>	
<b>14.1 UN number or ID number</b>	UN3077
<b>14.2 UN proper shipping name</b>	Environmentally hazardous substances, solid, n.o.s. (Phosphorothioic acid, O,O,O-triphenyl ester)
<b>14.3 Transport hazard class(es)</b>	9
<b>14.4 Packing group</b>	III
<b>Description</b>	UN3077, Environmentally hazardous substances, solid, n.o.s. (Phosphorothioic acid, O,O,O-triphenyl ester), 9, III, (-)
<b>14.5 Environmental hazards</b>	Yes
<b>14.6 Special precautions for user</b>	
<b>Special Provisions</b>	274, 335, 601, 375
<b>Classification code</b>	M7
<b>Tunnel restriction code</b>	(-)

## SECTION 15: Regulatory information

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

#### National regulations

##### Israel - Environmental Protection Law - Pollutant Release and Transfer Register (PRTR)

Chemical name	Threshold quantity
Distillates, petroleum, hydrotreated heavy naphthenic	500 kg TQ land,seawater,wastewater

Israel - Risk Management for Hazardous Materials Not applicable

Israel - Hazardous Substances Law Not applicable

#### International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

#### International Inventories

<b>EINECS/ELINCS</b>	Contact supplier for inventory compliance status
<b>TSCA</b>	Contact supplier for inventory compliance status
<b>DSL/NDL</b>	Contact supplier for inventory compliance status
<b>ENCS</b>	Contact supplier for inventory compliance status
<b>IECSC</b>	Contact supplier for inventory compliance status
<b>KECL</b>	Contact supplier for inventory compliance status
<b>PICCS</b>	Contact supplier for inventory compliance status
<b>AIIC</b>	Contact supplier for inventory compliance status
<b>NZIoC</b>	Contact supplier for inventory compliance status
<b>TCSI</b>	Contact supplier for inventory compliance status

#### Legend:

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing Chemicals Inventory  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AIIC** - Australian Inventory of Industrial Chemicals  
**NZIoC** - New Zealand Inventory of Chemicals  
**TCSI** - Taiwan Chemical Substance Inventory

## 15.2. Chemical safety assessment

**Chemical Safety Report** No information available

## SECTION 16: Other information

### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Full text of H-Statements referred to under section 3

H302 - Harmful if swallowed

H350 - May cause cancer

H410 - Very toxic to aquatic life with long lasting effects

#### Legend

ACGIH	American Conference of Governmental Industrial Hygienists
ADN	Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Europe)
ADR	Agreement concerning the International Carriage of Dangerous Goods by Road (Europe)
AIIC	Australian Inventory of Industrial Chemicals
ATE	Acute Toxicity Estimate
ASTM	American Society for the Testing of Materials
bar	Biological Reference Values for Chemical Compounds in the Work Area
BAT	Biological tolerance values for occupational exposure
BEL	Biological exposure limits
bw	Body weight
Ceiling	Maximum limit value
CMR	Carcinogen, Mutagen or Reproductive Toxicant
DOT	Department of Transportation (United States)
DSL	Domestic Substances List (Canada)
EmS	Emergency Schedule
ENCS	Existing and New Chemical Substances (Japan)
EPA	Environmental Protection Agency
GHS	Globally Harmonized System
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IBC	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO	International Civil Aviation Organisation
IECSC	Inventory of Existing Chemical Substances in China
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Organisation for Standardisation
KECI	Korean Existing Chemicals Inventory
LC50	Lethal Concentration to 50% of a test population
LD50	Lethal Dose to 50% of a test population (Median Lethal Dose)
MARPOL	International Convention for the Prevention of Pollution from Ships
n.o.s.	Not Otherwise Specified

NOAEC	No Observed Adverse Effect Concentration
NOAEL	No Observed Adverse Effect Level
NOELR	No Observable Effect Loading Rate
NZIoC	New Zealand Inventory of Chemicals
OECD	Organization for Economic Cooperation and Development
OEL	Occupational exposure limits
PBT	Persistent, Bioaccumulative and Toxic substance
PICCS	Philippines Inventory of Chemicals and Chemical Substances
PMT	Persistent, Mobile and Toxic
PPE	Personal protective equipment
QSAR	Quantitative Structure Activity Relationship
RID	Agreement concerning the International Carriage of Dangerous Goods by Rail (Europe)
SADT	Self-Accelerating Decomposition Temperature
SAR	Structure-activity relationship
SDS	Safety Data Sheet
SL	Surface Limit
STEL	Short Term Exposure Limit
STOT RE	Specific target organ toxicity - Repeated exposure
STOT SE	Specific target organ toxicity - Single exposure
TCSI	Taiwan Chemical Substance Inventory
TDG	Transport of Dangerous Goods (Canada)
TSCA	Toxic Substances Control Act (United States)
TWA	Time-Weighted Average
UN	United Nations
VOC	Volatile organic compounds
vPvB	Very Persistent and Very Bioaccumulative
vPvM	Very Persistent and Very Mobile
Sen+	Sensitiser
Sk*	Skin designation
**	Hazard Designation

#### Classification procedure

Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute dermal toxicity	On basis of test data
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

#### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)  
 U.S. Environmental Protection Agency ChemView Database  
 European Food Safety Authority (EFSA)  
 Environmental Protection Agency  
 Acute Exposure Guideline Level(s) (AEGL(s))  
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
 U.S. Environmental Protection Agency High Production Volume Chemicals  
 Food Research Journal  
 Hazardous Substance Database  
 International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)  
Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
NIOSH (National Institute for Occupational Safety and Health)  
National Library of Medicine's ChemID Plus (NLM CIP)  
National Library of Medicine's PubMed database (NLM PUBMED)  
U.S. National Toxicology Program (NTP)  
New Zealand's Chemical Classification and Information Database (CCID)  
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme  
Organisation for Economic Co-operation and Development Screening Information Data Set  
World Health Organization

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<b>Reason for revision</b>	Initial Release.

**Disclaimer**

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**End of Safety Data Sheet**