



# SAFETY DATA SHEET Dominator® Competition Diesel Oil SAE 20W-50

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200 and WHMIS 2015, in compliance with the Hazardous Product Act (HPA, as amended) and the requirements of the Hazardous Product Regulations (HPR).

1. Identification

**Product identifier** 

Product name Dominator® Competition Diesel Oil SAE 20W-50

Product number DCO

Recommended use of the chemical and restrictions on use

**Application** Engine oil.

**Uses advised against** Avoid the formation of mists.

Details of the supplier of the safety data sheet

Supplier AMSOIL INC.

Bordner, Ladner, Gervais Scotia Plaza, 40 King St W Toronto, ON, Canada M5H 3Y4

T: +1 416-367-6547

Manufacturer AMSOIL INC.

One AMSOIL Center, Superior, WI 54880, USA. T: +1 715-392-7101 compliance@amsoil.com

Emergency telephone number

Emergency telephone CHEMTREC: Within USA and Canada: 1-800-424-9300

Outside the USA and Canada: +1 703-741-5970

(collect calls accepted) 24/7

#### 2. Hazard(s) identification

#### Classification of the substance or mixture

OSHA/WHMIS Regulatory

This Product is not Hazardous under the OSHA Hazard Communication Standard and

according to the hazard criteria of the Hazardous Product Regulations.

Physical hazards Not Classified

Health hazards Not Classified

**Environmental hazards** Aquatic Acute 3 - H402

Label elements

**Status** 

**Hazard statements** H402 Harmful to aquatic life.

**Precautionary statements** P273 Avoid release to the environment.

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

Other hazards

This product does not contain any substances classified as PBT or vPvB.



## Dominator® Competition Diesel Oil SAE 20W-50

3. Composition/information on ingredients	
Mixtures	
Hydrogenated base oil	25 - <50%
CAS number: 72623-87-1	20 - 300 /0
CAS Hulliber. 12023-01-1	
Classification	
Asp. Tox. 1 - H304	
Hydrogenated base oil	10 - <25%
CAS number: 64742-55-8	10 20%
67 (6 Hallibet. 6 17 12 55 6	
Classification	
Asp. Tox. 1 - H304	
Hydrogenated base oil	2.5 - <5%
	2.3 - <5%
CAS number: 64742-65-0	
Classification	
Asp. Tox. 1 - H304	
I hadron and to discovering	4 40 50/
Hydrogenated base oil	1 - <2.5%
CAS number: 64742-54-7	
Classification	
Asp. Tox. 1 - H304	
	4 0.50
bis(Nonylphenyl)amine	1 - <2.5%
CAS number: 36878-20-3	
Classification	
Aquatic Chronic 4 - H413	
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	1 - <2.5%
CAS number: 70024-69-0	
CAS Humber: 70024-09-0	
Classification	
Skin Sens. 1B - H317	
Alcohols, C12-16, ethoxylated	0.025 - <0.25%
CAS number: 68551-12-2	0.023 - >0.2370
M factor (Acute) = 1	
Classification	
Eye Dam. 1 - H318	
Aquatic Acute 1 - H400	





## Dominator® Competition Diesel Oil SAE 20W-50

Phenol, dodecyl-, branched <0.025%

CAS number: 121158-58-5

M factor (Acute) = 10 M factor (Chronic) = 10

Classification

Skin Corr. 1C - H314
Eye Dam. 1 - H318
Repr. 1B - H360F
Aquatic Acute 1 - H400
Aquatic Chronic 1 - H410

The full text for all hazard statements is displayed in Section 16.

Composition comments The exact percentage is withheld as a trade secret in accordance with 29 CFR 1910.1200.

#### 4. First-aid measures

#### Description of first aid measures

General information Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical

personnel.

**Inhalation** Move affected person to fresh air and keep warm and at rest in a position comfortable for

breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.

Ingestion Rinse mouth thoroughly with water. Remove any dentures. Give a few small glasses of water

or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.

Skin Contact Rinse with water.

Eye contact Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide

apart. Continue to rinse for at least 10 minutes.

**Protection of first aiders** First aid personnel should wear appropriate protective equipment during any rescue.

#### Most important symptoms and effects, both acute and delayed

General information See Section 11 for additional information on health hazards. The severity of the symptoms

described will vary dependent on the concentration and the length of exposure.

**Inhalation** Prolonged inhalation of high concentrations may damage respiratory system.

**Ingestion** Gastrointestinal symptoms, including upset stomach. Fumes from the stomach contents may

be inhaled, resulting in the same symptoms as inhalation.

**Skin contact** Prolonged contact may cause dryness of the skin.

**Eye contact** May cause temporary eye irritation.

#### Indication of immediate medical attention and special treatment needed

**Specific treatments** No special treatment required.

## 5. Fire-fighting measures

#### **Extinguishing media**



## Dominator® Competition Diesel Oil SAE 20W-50

Suitable extinguishing media The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry

powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

#### Special hazards arising from the substance or mixture

Specific hazards Containers can burst violently or explode when heated, due to excessive pressure build-up.

Hazardous combustion

products

Thermal decomposition or combustion products may include the following substances:

Harmful gases or vapors.

#### Advice for firefighters

Protective actions during firefighting

Avoid breathing fire gases or vapors. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapors and protect men stopping the leak.

Special protective equipment for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter's clothing including helmets, protective boots and gloves, that provides a basic level of protection during chemical incidents is defined by the Canada Occupational Health and Safety Regulations, by provincial guidelines on occupational health and safety or by NFPA standards if applicable.

#### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Personal precautions

No action shall be taken without appropriate training or involving any personal risk. Keep

unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage. Use

protective equipment appropriate for surrounding materials.

**Environmental precautions** 

**Environmental precautions** Harmful to aquatic life. Avoid discharge to the aquatic environment. Avoid discharge into

drains or watercourses or onto the ground.

#### Methods and material for containment and cleaning up

Methods for cleaning up Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills

immediately and dispose of waste safely. Reuse or recycle products wherever possible. Absorb the spillage with an inert, dry material and place it in a suitable waste disposal container. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a

spillage. Dispose of contents/container in accordance with national regulations.

**Reference to other sections** For personal protection, see Section 8. For waste disposal, see Section 13.

#### 7. Handling and storage

#### Precautions for safe handling

**Usage precautions** Read and follow manufacturer's recommendations. Wear protective clothing as described in

Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimize spills. Keep container tightly sealed when not in use. Avoid contact with used product. Do not reuse empty containers. Avoid the

formation of mists.



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Advice on general occupational hygiene

Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace.

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

Storage precautions Store away from incompatible materials (see Section 10). Keep container tightly closed, in a

cool, well ventilated place. Protect containers from damage.

Storage class Chemical storage.

Specific end uses(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.

#### 8. Exposure Controls/personal protection

#### Control parameters

#### Occupational exposure limits

Comments

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Under conditions which may generate mists, the following exposure limits are recommended:

Long-term exposure limit (8-hour TWA): 5 mg/10m<sup>3</sup> Short-term exposure limit (15-minute): 10 mg/m<sup>3</sup>

#### **Exposure controls**

Appropriate engineering

controls

Provide adequate ventilation. Good general ventilation should be adequate to control worker exposure to airborne contaminants.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with OSHA 1910.133 and/or the Canadian regulation on health and safety at work, SOR/86-304, Part XII (12.6), and any relevant provincial regulation relating to health and safety at work. The following protection should be worn: Chemical splash goggles.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with OSHA 1910.138 and/or the Canadian regulation on health and safety at work, SOR/86-304, Part XII (12.9), and be demonstrated to be impervious to the chemical and resist degradation. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.

Other skin and body

protection

Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.

Hygiene measures

Provide eyewash station and safety shower. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke.

Respiratory protection

Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Provide adequate ventilation. Large Spillages: If ventilation is inadequate, suitable respiratory protection must be worn.



## Dominator® Competition Diesel Oil SAE 20W-50

**Environmental exposure** 

controls

Not regarded as dangerous for the environment.

#### 9. Physical and Chemical Properties

#### Information on basic physical and chemical properties

**Appearance** Liquid. Color Brown.

Odor Mild hydrocarbon.

Odor threshold Not available. pН Not available.

Not available. Melting point Initial boiling point and range Not available.

Flash point 254°C Cleveland open cup. [ASTM D 92]

**Evaporation rate** Not available. Not available.

Upper/lower flammability or

explosive limits

Vapor pressure Not available. Vapor density Not available.

Relative density 0.8649

Solubility(ies) Not known. Partition coefficient Not available. **Auto-ignition temperature** Not available. **Decomposition Temperature** Not available.

137.5 cSt @ 40°C Viscosity

18.5 cSt @ 100°C [ASTM D 445]

**Explosive properties** Not considered to be explosive.

Oxidizing properties Does not meet the criteria for classification as oxidizing.

Fire point 266°C Cleveland open cup. [ASTM D 92]

Pour point -37°C [ASTM D 97]

### 10. Stability and reactivity

See the other subsections of this section for further details. Reactivity

Stability Stable at normal ambient temperatures and when used as recommended. Stable under the

prescribed storage conditions.

Possibility of hazardous

reactions

No potentially hazardous reactions known.

Conditions to avoid There are no known conditions that are likely to result in a hazardous situation.



## Dominator® Competition Diesel Oil SAE 20W-50

Materials to avoid

No specific material or group of materials is likely to react with the product to produce a

hazardous situation.

Hazardous decomposition

products

Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors. Carbon dioxide (CO2). Carbon monoxide (CO).

## 11. Toxicological information

#### Information on toxicological effects

**Toxicological effects** Not regarded as a health hazard under current legislation.

Acute toxicity - oral

Notes (oral LD₅o) Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC50) Based on available data the classification criteria are not met.

Skin corrosion/irritation

Animal data Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation Based on available data the classification criteria are not met.

Respiratory sensitization

**Respiratory sensitization** Based on available data the classification criteria are not met.

Skin sensitization

**Skin sensitization** Based on available data the classification criteria are not met.

Germ cell mutagenicity

**Genotoxicity - in vitro**Based on available data the classification criteria are not met.

Carcinogenicity

**Carcinogenicity** Based on available data the classification criteria are not met.

**IARC carcinogenicity**None of the ingredients are listed or exempt.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Reproductive toxicity -

development

Based on available data the classification criteria are not met.

#### Specific target organ toxicity - single exposure

**STOT - single exposure** Not classified as a specific target organ toxicant after a single exposure.

#### Specific target organ toxicity - repeated exposure

STOT - repeated exposure 
Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

**Aspiration hazard** Based on available data the classification criteria are not met.

General information No specific health hazards known. The severity of the symptoms described will vary

dependent on the concentration and the length of exposure.



## Dominator® Competition Diesel Oil SAE 20W-50

**Inhalation** Prolonged inhalation of high concentrations may damage respiratory system.

**Ingestion** Gastrointestinal symptoms, including upset stomach. Fumes from the stomach contents may

be inhaled, resulting in the same symptoms as inhalation.

**Skin Contact** Prolonged contact may cause dryness of the skin.

**Eye contact** May cause temporary eye irritation.

Route of exposure Ingestion Inhalation Skin and/or eye contact

**Target Organs** No specific target organs known.

**Medical considerations** Skin disorders and allergies.

#### Toxicological information on ingredients.

#### Hydrogenated base oil

Acute toxicity - oral

**Notes (oral LD**₅o) LD₅o > 5000 mg/kg, Oral, Rat Read-across data. REACH dossier information.

Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) LD<sub>50</sub> > 5000 mg/kg, Dermal, Rabbit Read-across data. REACH dossier information.

Acute toxicity - inhalation

Notes (inhalation LC<sub>50</sub>) LC<sub>50</sub> > 5.53 mg/l, Inhalation, Rat 4 hours Read-across data. REACH dossier

information.

Skin corrosion/irritation

Animal data Dose: 0.5 ml, 24 hours, Rabbit Erythema/eschar score: Very slight erythema -

barely perceptible (1). Edema score: No oedema (0). Read-across data. REACH

dossier information. Not irritating.

#### Serious eye damage/irritation

Serious eye Dose: 0.1 ml, 30 seconds, Rabbit Cornea score: 0 Iris score: 0 Conjunctivae score:

**damage/irritation** 0.33 Read-across data. REACH dossier information.

Skin sensitization

**Skin sensitization** Buehler test - Guinea pig: Not sensitizing. Read-across data. REACH dossier

information.

dossier information.

Germ cell mutagenicity

**Genotoxicity - in vitro** Chromosome aberration: Negative. Read-across data. REACH dossier information.

Reproductive toxicity

Reproductive toxicity - Screening - NOAEL > 1000 mg/kg/day, Oral, Rat P Read-across data. REACH

fertility

Specific target organ toxicity - repeated exposure

STOT - repeated exposure LOAEL 125 mg/kg/day, Oral, Rat Read-across data. REACH dossier information.

Aspiration hazard

**Aspiration hazard** Aspiration hazard if swallowed.

Hydrogenated base oil

Acute toxicity - oral



## Dominator® Competition Diesel Oil SAE 20W-50

Notes (oral LD₅o >5000 mg/kg, Oral, Rat REACH dossier information. Based on available data

the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) LD<sub>50</sub> >2000 mg/kg, Dermal, Rabbit REACH dossier information. Based on available

data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC<sub>50</sub>) LC<sub>50</sub> 2.18 mg/l, Inhalation, Rat REACH dossier information. Based on available data

the classification criteria are not met.

Skin corrosion/irritation

Animal data Dose: 0.5 ml, 24 hours, Rabbit Primary dermal irritation index: 2.34 / 4 REACH

dossier information. Not irritating.

Serious eye damage/irritation

Serious eye

damage/irritation

Dose: 0.1 ml, 1 second, Rabbit REACH dossier information. Not irritating.

Skin sensitization

**Skin sensitization** Buehler test - Guinea pig: Not sensitizing. REACH dossier information.

Germ cell mutagenicity

**Genotoxicity - in vitro** Chromosome aberration: Negative. REACH dossier information.

**Genotoxicity - in vivo**Chromosome aberration: Negative. REACH dossier information.

Reproductive toxicity

Reproductive toxicity -

fertility

Screening - NOAEL ≥ 1000 mg/kg/day, Oral, Rat P

Reproductive toxicity -

development

Maternal toxicity: - LOAEL: 125 mg/kg/day, Dermal, Rat REACH dossier

information.

#### 12. Ecological Information

**Toxicity** Harmful to aquatic life.

#### Ecological information on ingredients.

#### Hydrogenated base oil

Acute aquatic toxicity

Acute toxicity - fish LL<sub>50</sub>, 96 hours: > 100 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic

invertebrates

EL<sub>50</sub>, 48 hours: > 10000 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

NOEL, 72 hours: > 100 mg/l, Pseudokirchneriella subcapitata

Hydrogenated base oil

**Toxicity** Aquatic toxicity is unlikely to occur.

Acute aquatic toxicity



## Dominator® Competition Diesel Oil SAE 20W-50

Acute toxicity - fish LL<sub>50</sub>, 96 hours: > 100 mg/l, Pimephales promelas (Fat-head Minnow)

REACH dossier information.

Acute toxicity - aquatic

LL<sub>50</sub>, 24 hours: > 10 000 mg/l, Gammarus pulex

invertebrates

REACH dossier information.

Acute toxicity - aquatic

NOEL, 72 hours: ≥ 100 mg/l, Pseudokirchneriella subcapitata

plants

REACH dossier information.

Acute toxicity - NOEL, 10 minutes: > 1.93 mg/l, microorganisms REACH dossier information.

**Chronic aquatic toxicity** 

Chronic toxicity - aquatic NOEL, 21 days: 10 mg/l, Daphnia magna

**invertebrates** REACH dossier information.

Persistence and degradability

Persistence and degradability The degradability of the product is not known.

Ecological information on ingredients.

Hydrogenated base oil

**Biodegradation** Water - Degradation 31%: 28 days

Inherently biodegradable.

Hydrogenated base oil

Persistence and

degradability

The product is not biodegradable.

**Biodegradation** Water - Degradation 2-8%: 28 days

Bioaccumulative potential

**Bio-Accumulative Potential** No data available on bioaccumulation.

Partition coefficient Not available.

Ecological information on ingredients.

Hydrogenated base oil

Bio-Accumulative Potential The product contains potentially bioaccumulating substances.

Mobility in soil

Mobility No data available.

Ecological information on ingredients.

Hydrogenated base oil

**Mobility** The product is insoluble in water.

Other adverse effects

Other adverse effects None known.

13. Disposal considerations

Waste treatment methods



## Dominator® Competition Diesel Oil SAE 20W-50

General information The generation of waste should be minimized or avoided wherever possible. Reuse or recycle

products wherever possible. This material and its container must be disposed of in a safe way. Avoid discharge into drains or watercourses or onto the ground. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements

of environmental protection and waste disposal legislation and any local authority

requirements.

**Disposal methods**Dispose of surplus products and those that cannot be recycled via a licensed waste disposal

contractor. Waste packaging should be collected for reuse or recycling. Incineration or landfill should only be considered when recycling is not feasible. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of the local water

authority.

14. Transport information

**General** The product is not covered by international regulations on the transport of dangerous goods

(IMDG, IATA, DOT, TDG).

**UN Number** 

Not applicable.

UN proper shipping name

Not applicable.

Transport hazard class(es)

Transport labels

No transport warning sign required.

Packing group

Not applicable.

**Environmental hazards** 

**Environmentally Hazardous Substance** 

No.

Special precautions for user

Not applicable.

DOT TIH Zone Not applicable.

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

15. Regulatory information

Regulatory References OSHA Hazard Communication Standard 29 CFR §1910.1200 Hazardous Products Regulation

(SOR/2015-17) Transportation of Dangerous Goods Regulations -SOR/2015-100.

**US Federal Regulations** 

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

None of the ingredients are listed or exempt.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

None of the ingredients are listed or exempt.



## Dominator® Competition Diesel Oil SAE 20W-50

#### SARA Extremely Hazardous Substances EPCRA Reportable Quantities

None of the ingredients are listed or exempt.

#### SARA 313 Emission Reporting

The following ingredients are listed or exempt:

Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate)

109

Zinc alkyldithiophosphate

1.0 %

#### **CAA Accidental Release Prevention**

None of the ingredients are listed or exempt.

#### SARA (311/312) Hazard Categories

None of the ingredients are listed or exempt.

#### **OSHA Highly Hazardous Chemicals**

None of the ingredients are listed or exempt.

## **US State Regulations**

#### California Proposition 65 Carcinogens and Reproductive Toxins

None of the ingredients are listed or exempt.

#### California Air Toxics "Hot Spots" (A-I)

None of the ingredients are listed or exempt.

#### California Air Toxics "Hot Spots" (A-II)

None of the ingredients are listed or exempt.

#### California Directors List of Hazardous Substances

None of the ingredients are listed or exempt.

#### Massachusetts "Right To Know" List

The following ingredients are listed or exempt:

Hydrogenated base oil

#### Rhode Island "Right To Know" List

None of the ingredients are listed or exempt.

#### Minnesota "Right To Know" List

None of the ingredients are listed or exempt.

## New Jersey "Right To Know" List

None of the ingredients are listed or exempt.

#### Pennsylvania "Right To Know" List

None of the ingredients are listed or exempt.

#### Inventories

#### Canada - DSL/NDSL

All the ingredients are listed or exempt.

#### **US-TSCA**

All the ingredients are listed or exempt.



## Dominator® Competition Diesel Oil SAE 20W-50

#### US - TSCA 12(b) Export Notification

None of the ingredients are listed or exempt.

#### 16. Other information

Abbreviations and acronyms used in the safety data sheet C.A.S. = Chemical Abstracts Service; E.C. No = European Commission number; GHS = Globally Harmonised System: OSHA = Occupational Safety and Health Administration; WHMIS = Workplace Hazardous Materials Information System; DOT = Department of Transport; TDG = Transport of Dangerous Goods Regulations; IMDG = International Maritime Dangerous Goods; IATA = International Air Transport Association; SARA = Superfund Amendments and Reauthorization Act; CERCLA = Comprehensive Environmental; EPCRA = Emergency Planning and Community Right-to-Know Act; TSCA = Toxic Substances Control Act; LD/LC/EC = Lethal Dose, Lethal Concentration/Effect Concentration for 50% of population; NOEC = No Overall Effect Concentration; NOEL = No Overall Effect Level; REACH = Registration, Evaluation, Authorisation & Restriction of Chemicals; STOT-RE = Single Target Organ Toxicity - Repeat Exposure; STOT-SE= Specific Target Organ Toxicity -Single Exposure; PBT = Persistent, Bioaccumulative, Toxic; vPvB = Very Persistent, Very Bioaccumulative.

Key literature references and sources for data

Source: European Chemicals Agency, http://echa.europa.eu/

Training advice Read and follow manufacturer's recommendations. Only trained personnel should use this

material.

Revision date 1/16/2018

Revision

Supersedes date 11/3/2017

SDS No. 6393

Hazard statements in full H304 May be fatal if swallowed and enters airways.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H360F May damage fertility. H400 Very toxic to aquatic life.

H402 Harmful to aquatic life.

H410 Very toxic to aquatic life with long lasting effects. H413 May cause long lasting harmful effects to aquatic life.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.