



## SAFETY DATA SHEET

According to Canadian Hazardous Products Regulations (HPR) (SOR/2015/17)

SDS # : 088631

### FLUIDMATIC DCT MV

Date of the previous version: 2018-05-17

Revision Date: 2019-01-03

Version 1.01

#### 1. IDENTIFICATION

##### Product identifier

Product name FLUIDMATIC DCT MV

##### Other means of identification

Product Code(s) 088631

Number CNP  
Substance/mixture Mixture

##### Recommended use of the chemical and restrictions on use

Identified uses Transmission fluid

Uses advised against Do not use for any purpose other than the one for which it is intended.

##### Details of the supplier of the safety data sheet

Supplier TOTAL CANADA INC.  
220, LAFLEUR  
LASALLE, QUEBEC  
H8R 4C9  
Tel: (514) 595-7579  
Fax: (514) 595-5950

Contact Point service HSE

E-mail Address ProductSafety@total.com

##### Emergency telephone number

Emergency telephone 1-800-463-3955  
Company Phone Number +1 866 928 0789 (24h/24, 7d/7)  
+1 215 207 0061 (24h/24, 7d/7)

#### 2. HAZARDS IDENTIFICATION

##### Classification

Skin corrosion/irritation - Category 3\*\*\*

##### Label elements

##### **WARNING\*\*\***

##### **Hazard Statements**

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Causes mild skin irritation\*\*\*

### Skin

If skin irritation occurs: Get medical advice/attention\*\*\*

### Other information

#### Other hazards

Toxic to aquatic life\*\*\*

#### Physical-Chemical Properties

Contaminated surfaces will be extremely slippery.

#### Environmental properties

The product may form an oil film on the water surface that may stop the oxygen exchange. Should not be released into the environment.\*\*\*

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Mixture

#### Chemical nature

Mineral oil of petroleum origin.

Chemical Name	EC-No	CAS-No	Weight %
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based***	276-737-9***	72623-86-0	30<40
Distillates (petroleum), hydrotreated light paraffinic***	265-158-7***	64742-55-8	10<20
bis(nonylphenyl)amine***	253-249-4***	36878-20-3	1<2.5
Reaction products of fatty acids, C14-C18 (branched and linear) and C18 (unsaturated) with tetraethylenepentamine (linear, branched, cyclic) ***	701-204-9***	^	1<2.5
1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-nonanethiol***	293-927-7***	91648-65-6	1<2.5
C14-18 alpha-olefin epoxide, reaction products with boric acid***	939-580-3	^	0.1<1
2-Ethylhexyl methacrylate***	211-708-6***	688-84-6	0.25<1
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol ***	620-540-6	1218787-32-6	0.25<1

#### Additional information

Product containing mineral oil with less than 3% DMSO extract as measured by IP 346

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### 4. FIRST AID MEASURES

#### First aid measures for different exposure routes

<b>General advice</b>	IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.
<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. High pressure jets may cause skin damage. Take victim immediately to hospital.
<b>Inhalation</b>	Remove casualty to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration.
<b>Ingestion</b>	Clean mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
<b>Protection of First-aiders</b>	First aider needs to protect himself. See Section 8 for more detail. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

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

<b>Skin contact</b>	Causes mild skin irritation. May produce an allergic reaction. High pressure injection of the products under the skin may have very serious consequences even though no symptom or injury may be apparent.
<b>Eye contact</b>	Not classified based on available data.
<b>Inhalation</b>	Not classified based on available data. Inhalation of vapors in high concentration may cause irritation of respiratory system.
<b>Ingestion</b>	Not classified based on available data. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
<b>Symptoms</b>	No information available.

#### Indication of immediate medical attention and special treatment needed, if necessary

<b>Notes to physician</b>	Treat symptomatically.
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### 5. FIRE-FIGHTING MEASURES

<b><u>Suitable Extinguishing Media</u></b>	Carbon dioxide (CO <sub>2</sub> ). ABC powder. Foam. Water spray or fog.
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<b>Unsuitable Extinguishing Media</b>	Do not use a solid water stream as it may scatter and spread fire.
<b><u>Special Hazard</u></b>	Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration. Combustion products include sulphur oxides ( SO <sub>2</sub> and SO <sub>3</sub> ) and Hydrogen sulphide H <sub>2</sub> S. Nitrogen oxides (NO <sub>x</sub> ). Mercaptans.
<b><u>Explosion Data</u></b>	
<b>Sensitivity to Mechanical Impact</b>	None.
<b>Sensitivity to Static Discharge</b>	None.
<b>Special protective equipment for fire-fighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Evacuate non-essential personnel.

### 6. ACCIDENTAL RELEASE MEASURES

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

<b>General Information</b>	Do not touch or walk through spilled material. Contaminated surfaces will be extremely slippery. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition.
<b>Other information</b>	See Section 12 for additional information.

#### Environmental precautions

<b>General Information</b>	Do not allow material to contaminate ground water system. Prevent entry into waterways, sewers, basements or confined areas. Local authorities should be advised if significant spillages cannot be contained.
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#### Methods and material for containment and cleaning up

<b>Methods for containment</b>	Dike to collect large liquid spills. If necessary dike the product with dry earth, sand or similar non-combustible materials.
<b>Methods for cleaning up</b>	Dispose of contents/container in accordance with local regulation. In case of soil contamination, remove contaminated soil for remediation or disposal, in accordance with local regulations.

### 7. HANDLING AND STORAGE

#### Precautions for safe handling

<b>Advice on safe handling</b>	For personal protection see section 8. Use only in well-ventilated areas. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing.
<b>Prevention of fire and explosion</b>	Take precautionary measures against static discharges.

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### Hygiene measures

Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Regular cleaning of equipment, work area and clothing is recommended. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.

### Conditions for safe storage, including any incompatibilities

#### Technical measures/Storage conditions

Keep away from food, drink and animal feedingstuffs. Keep in a bunded area. Keep container tightly closed. Keep preferably in the original container. Otherwise reproduce all indication of the regulation label on the new container. Do not remove the hazard labels of the containers (even if they are empty). Design the installations in order to avoid accidental emissions of product (due to seal breakage, for example) onto hot casings or electrical contacts. Store at room temperature. Protect from moisture.

#### Materials to Avoid

Strong oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure limits

Mineral oil mist:  
USA: OSHA (PEL) TWA 5 mg/m<sup>3</sup>, NIOSH (REL) TWA 5 mg/m<sup>3</sup>, STEL 10 mg/m<sup>3</sup>, ACGIH (TLV) TWA 5 mg/m<sup>3</sup> (highly refined).

#### Legend

See section 16

### Exposure controls

#### Engineering Measures

Apply technical measures to comply with the occupational exposure limits. Ensure adequate ventilation, especially in confined areas. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

### Individual protection measures, such as personal protective equipment

#### General Information

Protective engineering solutions should be implemented and in use before personal protective equipment is considered. The personal protective equipment (PPE) recommendations apply to the product ITSELF. In case of mixtures or formulations, it is suggested that you contact the relevant PPE suppliers.

#### Eye/face protection

Safety glasses with side-shields.

#### Skin and body protection

Wear suitable protective clothing. Protective shoes or boots.

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### Hand Protection

Hydrocarbon-proof gloves: Fluorinated rubber. Nitrile rubber. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

### Respiratory protection

None under normal use conditions. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Respirator with combination filter for vapor/particulate. Warning ! filters have a limited use duration. The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical and chemical properties

Appearance		limpid	
Color		amber	
Physical State @20°C		liquid	
Odor		Characteristic	
Odor Threshold		No information available	
Property	Values	Remarks	Method
pH		Not applicable	
Melting point/range		No information available	
Boiling point/boiling range		No information available	
Flash point	204 °C 399 °F	No information available	ASTM D92 ASTM D92.
Evaporation rate		No information available	
Flammability Limits in Air			
upper		No information available	
Lower		No information available	
Vapor Pressure		No information available	
Vapor density		No information available	
Relative density	0.854	@ 15 °C	
Density	854 kg/m <sup>3</sup>	@ 15 °C	
Water solubility		Insoluble	
Solubility in other solvents		No information available	
logPow		No information available	
Autoignition temperature		No information available	
Decomposition temperature		No information available	
Viscosity, kinematic	34.5 mm <sup>2</sup> /s 7.1 mm <sup>2</sup> /s	@ 40 °C @ 100 °C	ASTM D445 ASTM D445

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Explosive properties	Not explosive
Oxidizing Properties	Not applicable
Possibility of hazardous reactions	None under normal processing
Other information	

Freezing Point	No information available
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Pour point	-48 °C	ASTM D97
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### 10. STABILITY AND REACTIVITY

<u>Reactivity</u>	None under normal processing.
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<u>Chemical stability</u>	Stable under recommended storage conditions.
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<u>Possibility of hazardous reactions</u>	No dangerous reaction known under conditions of normal use.
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<u>Conditions to avoid</u>	Keep away from open flames, hot surfaces and sources of ignition. Keep away from heat and sparks. Take precautionary measures against static discharges.***
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<u>Incompatible materials</u>	Strong oxidizing agents.
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<u>Hazardous Decomposition Products</u>	Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. Nitrogen oxides (NOx). Mercaptans. Combustion products include sulphur oxides ( SO2 and SO3 ) and Hydrogen sulphide H2S.
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### 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Symptoms	No information available.
Skin contact	Causes mild skin irritation. May produce an allergic reaction. High pressure injection of the products under the skin may have very serious consequences even though no symptom or injury may be apparent.
Eye contact	Not classified based on available data.
Inhalation	Not classified based on available data. Inhalation of vapors in high concentration may cause irritation of respiratory system.
Ingestion	Not classified based on available data. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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

#### Acute toxicity - Product Information

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**Oral** Not classified based on available data

**Dermal** Not classified based on available data

**Inhalation** Not classified based on available data

**Acute toxicity - Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based*** 72623-86-0	LD50 > 5000 mg/kg bw (Rat - OECD TG 401)	LD50 > 2000 mg/kg (Rabbit - OECD 402)	LD50 (4h) > 5.53 mg/l (Rat - OECD 403)
Distillates (petroleum), hydrotreated light paraffinic*** 64742-55-8	LD50 > 5000 mg/kg bw (rat - OECD 420)	LD50 > 5000 mg/kg bw (rabbit - OECD 402)	LC50 (4h) > 5 mg/l (aerosol) (rat - OECD 403)
bis(nonylphenyl)amine*** 36878-20-3	LD50 > 5000 mg/kg (Rat - OECD 401)	LD50 > 2000 mg/kg (Rat - OECD 402)	
Reaction products of fatty acids, C14-C18 (branched and linear) and C18 (unsaturated) with tetraethylenepentamine (linear, branched, cyclic) *** ^	LD50 > 5000 mg/kg bw (rat - OECD 401)	LD50 > 2000 mg/kg bw (rabbit - OECD 402)	
1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-nonanethiol*** 91648-65-6	LD50 > 5000 mg/Kg (Rat)	LD50 > 2000 mg/Kg (Rabbit)	
C14-18 alpha-olefin epoxide, reaction products with boric acid*** ^	LD50 > 16000 mg/kg (Rat)	LD50 > 2000 mg/kg (Rat - OECD 402)	
2-Ethylhexyl methacrylate*** 688-84-6	LD50 16465 mg/kg bw (Rat)		
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol *** 1218787-32-6	LD50 1200 - 2000 mg/kg bw (rat)		

**Skin corrosion/irritation****Serious eye damage/eye irritation****Respiratory or skin sensitization****Germ cell mutagenicity****Carcinogenicity**

May cause skin irritation.

Not classified based on available data.

Not classified based on available data. Contains sensitizer(s). May produce an allergic reaction.

Not classified based on available data.

Not classified based on available data.

**Reproductive toxicity****Target Organ Effects (STOT)****STOT - single exposure****STOT - repeated exposure****Aspiration hazard**

Not classified based on available data.

None known.

Not classified based on available data.

Not classified based on available data.

Not classified based on available data.

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### 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

##### Acute aquatic toxicity - Product Information

No information available

##### Acute aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates	Toxicity to microorganisms
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based*** 72623-86-0		LL50 (96h) > 100 mg/l (OECD TG 203)	EL50(48h) >1000 mg/l (OECD TG 202)	
Distillates (petroleum), hydrotreated light paraffinic*** 64742-55-8	EL50 (72h) > 100 mg/l (Pseudokirchneriella subcapitata - OCDE 201)	LL50 (96h) > 100 mg/L (Oncorhynchus mykiss - OCDE 203)	EL50 (48h) > 10000 mg/L (Daphnia magna - OCDE 202)	
bis(nonylphenyl)amine*** 36878-20-3	EC50(72h) 600 mg/l (Selenastrum capricornutum)***	LC50(96h) > 100 mg/l (Zebra Fish)***	EC50 (48h) > 100 mg/l (Daphnia magna - OECD 202)	EC50(0.1 d) > 1,000 mg/l (Sludge)***
Reaction products of fatty acids, C14-C18 (branched and linear) and C18 (unsaturated) with tetraethylenepentamine (linear, branched, cyclic) *** ^	EC50 (96h) 44 mg/l (Pseudokirchneriella subcapitata - OECD 201) EC50 (96h) 94 mg/l (Pseudokirchneriella subcapitata - OECD 201)	LL50 (96h) >1000 mg/l (Pimephales promelas-OECD 203) LC50 (96h) 600 mg/l (Pimephales promelas-OECD 203)	LC50 (48h) 1000mg/l (Daphnia magna - OECD 202)***	EC50(3h) 1000 mg/l***
1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-nonanethiol*** 91648-65-6	EC50 (72h) 100 - 1000 mg/L	LC50 (96h) > 1000 mg/L	EC50 (48h) 10 - 100 mg/L	
C14-18 alpha-olefin epoxide, reaction products with boric acid*** ^	EL50 (72h) > 100 mg/l (Pseudokirchneriella subcapitata - static - OECD 201)	LL50 (96h) > 100 m/l (Oncorhynchus mykiss - semi static - OECD 203)	EL50 (48h) >= 100 mg/l (Daphnia magna - static - OECD 202)	
2-Ethylhexyl methacrylate*** 688-84-6		LC50(96h) 2.78 mg/l (Oryzias latipes - semi static - OECD203)		
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol *** 1218787-32-6	EC50(72h) 0.0538 mg/l (Pseudokirchneriella subcapitata) NOEC(72h) 0,0156 mg/l (Pseudokirchneriella subcapitata)	LC50(96h) 0.1 mg/l	EC50 (48h) 0.043 mg/l (Daphnia magna)	EC50(mud,3h) 167 mg/l

##### Chronic aquatic toxicity - Product Information

No information available

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**Chronic aquatic toxicity - Component Information**

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Toxicity to microorganisms
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based*** 72623-86-0		NOEL (21d) = 10 mg/l (OECD TG 202)	NOELR (14d) > 1000 mg/l (QSAR modelled data)	
Distillates (petroleum), hydrotreated light paraffinic*** 64742-55-8		NOEL (21d) 10 mg/l (Daphnia magna - OCDE 211)	NOEL (14/28d) >1000 mg/l (Oncorhynchus mykiss - QSAR Petrotox)	
Reaction products of fatty acids, C14-C18 (branched and linear) and C18 (unsaturated) with tetraethylenepentamine (linear, branched, cyclic) *** ^	NOEC (96h) 23 mg/l (Pseudokirchnerella subcapitata - OECD 201) NOEC (96h) 23 mg/l (Pseudokirchnerella subcapitata - OECD 201)	EL50 (14d) 72 mg/l (Daphnia magna - OECD 202) EL50 (21d) 65 mg/l (Daphnia magna - OECD 202) EL50 (21d) 57 mg/l (Daphnia magna - OECD 202) LOEC (21d) 100 mg/l (Daphnia magna - OECD 202) NOEC (21d) 32 mg/l (Daphnia magna - OECD 202) NOEC (48h) 100 mg/l (Daphnia magna - OECD 202)		
2-Ethylhexyl methacrylate*** 688-84-6	NOEC(72h) 0.28 mg/l (Pseudokirchnerella subcapitata - static - OECD201)	NOEC(21d) 0.105 mg/l (Daphnia magna - OECD211)		
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol *** 1218787-32-6		EC10(21d) 0.0107 mg/l (Daphnia magna)		

**Effects on terrestrial organisms** No information available.**Persistence and degradability**

No information available

**Bioaccumulative potential****Product Information** No information available.**logPow** No information available

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**Component Information**

Chemical Name	log Pow
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based*** 72623-86-0	6.1
bis(nonylphenyl)amine*** 36878-20-3	7.7
1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-nonanethiol*** 91648-65-6	9.4
2-Ethylhexyl methacrylate*** 688-84-6	4.95
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol *** 1218787-32-6	3.6

**Mobility**

**Soil** Given its physical and chemical characteristics, the product generally shows low soil mobility

**Air** Loss by evaporation is limited

**Water** The product is insoluble and floats on water

**Other adverse effects**

**General Information** No information available

**13. DISPOSAL CONSIDERATIONS****Waste treatment**

**Waste from residues/unused products** Should not be released into the environment. Do not empty into drains. Dispose of in accordance with all applicable national environmental laws and regulations. Where possible recycling is preferred to disposal or incineration. Other Regulatory Status: No Canadian federal standard; however, for general discharge guidance, federal installations limited to 15 mg/L for total oil and grease. Provincial criteria are likely and should be requested when notifying provincial authorities.

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

**14. TRANSPORT INFORMATION**

**TDG** Not regulated

**ICAO/IATA** Not regulated

**IMDG/IMO** Not regulated

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ADR/RID

Not regulated

**15. REGULATORY INFORMATION**

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) (SOR/2015/17) and the Safety Data Sheet (SDS) contains all the information required by the HPR

**International Inventories**

All the substances contained in this product are listed or exempted from listing in the following inventories:

Australia (AICS)  
 U.S.A. (TSCA)  
 Canada (DSL/NDSL)  
 Korea (KECL)  
 New Zealand (NZIoC)  
 China (IECSC)  
 Philippines (PICCS)\*\*\*

**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

<b>NFPA</b>	<b>Health Hazard 1</b>	<b>Flammability 1</b>	<b>Instability 0</b>	<b>Special hazards -</b>
<b>HMIS</b>	<b>Health Hazard 1</b>	<b>Flammability 1</b>	<b>Physical Hazard 0</b>	<b>Personal protection X</b>

Revision Date: 2019-01-03

Revision Note: \*\*\* Indicates updated section\*\*\*

**Abbreviations, acronyms**

ACGIH = American Conference of Governmental Industrial Hygienists

bw = body weight

bw/day = body weight/day

EC x = Effect Concentration associated with x% response

GLP = Good Laboratory Practice

IARC = International Agency for Research of Cancer

LC50 = 50% Lethal concentration - Concentration of a chemical in air or a chemical in water which causes the death of 50% (one half) of a group of test animals

LD50 = 50% Lethal Dose - Chemical amount, given at once, which causes the death of 50% (one half) of a group of test animals

LL = Lethal Loading

NIOSH = National Institute of Occupational Safety and Health

NOAEL = No Observed Adverse Effect Level

NOEC = No Observed Effect Concentration

NOEL = No Observed Effect Level

OECD = Organization for Economic Co-operation and Development

OSHA = Occupational Safety and Health Administration

UVCB = Substance of unknown or Variable composition, Complex reaction products or Biological material

NTP = National Toxicology Program

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**Section 8**

TWA - Time Weight Average

STEL - Short Term Exposure Limits

+	Sensitizer	*	Skin designation
C:	Carcinogen	R:	Toxic to reproduction
Ceiling:	Ceiling Limit Value		

This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.

End of the Safety Data Sheet