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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product form : Mixtures  
Trade name/designation : High Performance 4-stroke Marine Engine Oil SAE 25W50 Synthetic Blend  
Product code : 8M0096256, 858084QE1, 858119QE1  
Document no. : 766-01-0164S

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

#### 1.2.1. Relevant identified uses

Intended for general public  
Main use category : Industrial use, Professional uses, Consumer use  
Industrial/Professional use spec : Non-dispersive use  
Used in closed systems  
Use of the substance/mixture : Lubricants  
Additive

#### 1.2.2. Uses advised against

No data available

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

Brunswick Marine EMEA  
Parc industriel de Petit-Rechain, Avenue Mercury 8  
4800 Verviers - Belgium  
T +32 (0)87 32 32 11  
[bme.compliance@brunswick.com](mailto:bme.compliance@brunswick.com)

### 1.4. Emergency telephone number

Emergency number : 0032 3 575 55 55  
This telephone number is available 24 hours per day, 7 days per week.

Country	Official advisory body	Address	Emergency number
Ireland	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	+353 1 809 21 66 (public, 8am - 10pm, 7/7) +353 01 809 2566 (Professionals, 24/7)
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit	Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle	0844 892 0111 (UK only, 24/7, healthcare professionals only)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Aquatic Chronic 3 H412

Full text of hazard classes and H-statements : see section 16

### 2.2. Label elements

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

Signal word : -  
Hazard statements (CLP) : H412 - Harmful to aquatic life with long lasting effects.  
Precautionary statements (CLP) : P273 - Avoid release to the environment.

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Extra phrases : P501 - Dispose of contents/container to an approved waste disposal plant.  
: EUH208 - Contains Molybdenum polysulphide long chain alkyl dithiocarbamate complex. May produce an allergic reaction.

### 2.3. Other hazards

Other hazards : Results of PBT and vPvB assessment. Not applicable.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Bis(nonylphenyl)amine	(CAS-No.) 36878-20-3 (EC-No.) 253-249-4 (REACH-no) 01-2119488911-28-XXXX	1 - <2,5	Aquatic Chronic 4, H413
zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)	(CAS-No.) 93819-94-4 (EC-No.) 298-577-9 (REACH-no) 01-2119543726-33-XXXX	1 - 1,5	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411
Nonylphenol, branched, ethoxylated substance listed as REACH Candidate	(CAS-No.) 68412-54-4 (EC-No.) 500-209-1 (EC Index) -	0,1 - 0,5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Molybdenum polysulphide long chain alkyl dithiocarbamate complex	(CAS-No.) - (EC-No.) 457-320-2 (EC Index) - (REACH-no) 01-0000019337-66-XXXX	0,1 - <0,25	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412
Phenol, dodecyl-, branched	(CAS-No.) 121158-58-5 (EC-No.) 310-154-3 (EC Index) 604-092-00-9 (REACH-no) 01-2119513207-49-XXXX	0,01 - 0,15	Skin Corr. 1C, H314 Eye Dam. 1, H318 Repr. 2, H361f Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)

#### Specific concentration limits:

Substance name	Product identifier	Specific concentration limits
zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)	(CAS-No.) 93819-94-4 (EC-No.) 298-577-9 (REACH-no) 01-2119543726-33-XXXX	( 6,25 =<C <= 100) Skin Irrit. 2, H315 ( 10 <C <= 12,5) Eye Irrit. 2, H319 ( 12,5 <C <= 100) Eye Dam. 1, H318

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

Additional advice : First aider: Pay attention to self-protection. Concerning personal protective equipment to use, see section 8. Never give anything by mouth to an unconscious person or a person with cramps. In case of doubt or persistent symptoms, consult always a physician. Show this safety data sheet to the doctor in attendance. Treat symptomatically.

Inhalation : Remove person to fresh air and keep comfortable for breathing. In case of doubt or persistent symptoms, consult always a physician.

Skin contact : Take off contaminated clothing. Gently wash with plenty of soap and water. In case of doubt or persistent symptoms, consult always a physician.

Eyes contact : Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. In case of doubt or persistent symptoms, consult always a physician.

Ingestion : Rinse mouth out with water. Get medical advice/attention.

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

Inhalation : Health injuries are not known or expected under normal use.  
 Skin contact : May produce an allergic reaction.  
 Eyes contact : Health injuries are not known or expected under normal use.  
 Ingestion : Health injuries are not known or expected under normal use.

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

No data available

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

Suitable extinguishing media : Water spray. Alcohol resistant foam. dry extinguishing powder. Carbon dioxide.  
 Unsuitable extinguishing media : Strong water jet.

**5.2. Special hazards arising from the substance or mixture**

Specific hazards : Non flammable. Heating will cause a rise in pressure with a risk of bursting.  
 Hazardous decomposition products in case of fire : Carbon oxides (CO, CO<sub>2</sub>).

**5.3. Advice for firefighters**

Firefighting instructions : Evacuate area. Use water spray or fog for cooling exposed containers. Contain the extinguishing fluids by bunding. Prevent fire fighting water from entering the environment.  
 Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus.  
 Other information : Do not allow run-off from fire-fighting to enter drains or water courses.

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

**6.1.1. For non-emergency personnel**

For non-emergency personnel : Evacuate personnel to a safe area. Stay upwind/keep distance from source. Provide adequate ventilation. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Do not breathe vapour/aerosol. Avoid contact with skin, eyes and clothing.

**6.1.2. For emergency responders**

For emergency responders : Ensure procedures and training for emergency decontamination and disposal are in place. Concerning personal protective equipment to use, see section 8.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains. Notify authorities if product enters sewers or public waters.

**6.3. Methods and material for containment and cleaning up**

Methods for cleaning up : Stop leak if safe to do so. Dam up. Clean-up methods - small spillage: Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite or powdered limestone, Collect in closed and suitable containers for disposal. Clean-up methods - large spillage: Recover large spills by pumping (use an explosion proof or hand pump), Keep in suitable, closed containers for disposal. Dispose of waste product or used containers according to local regulations.

**6.4. Reference to other sections**

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : Provide adequate ventilation. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Do not breathe vapour/aerosol. Avoid contact with skin, eyes and clothing. Take any precaution to avoid mixing with combustibles/... See also section 10. Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time). Do not allow to enter into surface water or drains.
- Hygiene measures : Keep good industrial hygiene. Wash hands immediately after handling the product. When using do not eat, drink or smoke. Keep away from food, drink and animal feedingstuffs. Separate working clothes from town clothes. Take off contaminated clothing. Wash contaminated clothing before reuse.

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

- Technical measures : Store in a dry, cool and well-ventilated place (< 40 °C). Refer to the detailed list of incompatible materials in section 10 Stability/Reactivity. Bund storage facilities to prevent soil and water pollution in the event of spillage.
- Packaging materials : Keep only in the original container.

### 7.3. Specific end use(s)

No data available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

- Additional information : Exposure limit value -TLV(ACGIH) : 5 TWA (mg/m<sup>3</sup>) (8h). Monitoring methods : Room air monitoring. Personal air monitoring

### 8.2. Exposure controls

- Engineering measure(s) : Provide adequate ventilation. Organisational measures to prevent /limit releases, dispersion and exposure. Safe handling: see section 7 .
- Personal protective equipment : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- Hand protection : Chemical resistant gloves (according to European standard NF EN 374 or equivalent). Suitable material: Nitrile rubber. Breakthrough time : >480min. Thickness > 0,35 mm. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.
- Eye protection : Use suitable eye protection (EN166): Goggles
- Body protection : Wear suitable protective clothing
- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. Half-face mask (DIN EN 140). full face mask (DIN EN 136). Filter type: ABEK + P. The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. (EN 137)
- Thermal hazard protection : Not required for normal conditions of use. Use dedicated equipment.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

- Physical state : liquid
- Appearance : liquid. Oily.
- Colour : Yellow-brown.
- Odour : characteristic.

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Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting / freezing point	: No data available
Freezing point	: No data available
Initial boiling point and boiling range	: No data available
Flash point	: > 200 °C (ASTM D92)
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable, liquid
Vapour pressure	: No data available
Vapour density	: No data available
Relative density	: No data available
Density	: 899 kg/m <sup>3</sup> (15 °C)
Solubility	: No data available. Water: Slightly soluble
Partition coefficient n-octanol/water	: No data available
Kinematic viscosity	: 195 mm <sup>2</sup> /s (40 °C)
Dynamic viscosity	: No data available
Explosive properties	: Not applicable. The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.
Oxidising properties	: Not applicable. The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with oxidising properties.
Explosive limits	: No data available

## **9.2. Other information**

No data available

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

None under normal processing. Reference to other sections 10.5.

### **10.2. Chemical stability**

Stable at ambient temperature and under normal conditions of use.

### **10.3. Possibility of hazardous reactions**

None under normal processing.

### **10.4. Conditions to avoid**

Safe handling: see section 7.

### **10.5. Incompatible materials**

Strong oxidizing agents. Acids. Bases. Safe handling: see section 7.

### **10.6. Hazardous decomposition products**

Reference to other sections 5.2.

## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

Acute toxicity : Not classified (Not classified due to lack of data.)

<b>zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate) (93819-94-4)</b>	
LD50/oral/rat	2600 mg/kg

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<b>zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate) (93819-94-4)</b>	
LD50/dermal/rat	> 3160 mg/kg (OECD 402)
LD50/dermal/rabbit	> 3160 mg/kg
LC50/inhalation/4h/rat	> 2 mg/l (1h - OECD 403) read-across approach

<b>Bis(nonylphenyl)amine (36878-20-3)</b>	
LD50/oral/rat	> 5000 mg/kg (OECD 401)
LD50/dermal/rat	> 2000 mg/kg (OECD 402)

Skin corrosion/irritation	: Not classified (Not classified due to lack of data.) pH: No data available
Serious eye damage/irritation	: Not classified (Not classified due to lack of data.) pH: No data available
Respiratory or skin sensitisation	: Not classified (Not classified due to lack of data.)
Germ cell mutagenicity	: Not classified (Not classified due to lack of data.)
Carcinogenicity	: Not classified (Not classified due to lack of data.)
Reproductive toxicity	: Not classified (Not classified due to lack of data.)
STOT-single exposure	: Not classified (Not classified due to lack of data.)
STOT-repeated exposure	: Not classified (Not classified due to lack of data.)
Aspiration hazard	: Not classified (Not classified due to lack of data.)

<b>High Performance 4-stroke Marine Engine Oil SAE 25W50 Synthetic Blend</b>	
Kinematic viscosity	195 mm <sup>2</sup> /s (40 °C)

Other information : Symptoms related to the physical, chemical and toxicological characteristics. For further information see section 4.

## SECTION 12: Ecological information

### 12.1. Toxicity

Environmental properties : Harmful to aquatic life with long lasting effects.

<b>zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate) (93819-94-4)</b>	
LC50 fish 1	4,5 mg/l Oncorhynchus mykiss 96h (OECD 203)
EC50 Daphnia 1	5,4 mg/l (48 h) (OECD 202)
EC50 other aquatic organisms 1	2,1 mg/l (Selenastrum capricornutum) 48 h (OECD 201)

<b>Nonylphenol, branched, ethoxylated (68412-54-4)</b>	
EC50 Daphnia 1	< 1 mg/l

<b>Bis(nonylphenyl)amine (36878-20-3)</b>	
LC50 fish 1	(96h) > 100 mg/l Brachydanio rerio (zebra-fish)
EC50 Daphnia 1	(48h) > 100 mg/l Daphnia magna (Big water flea)
ErC50 (algae)	600 mg/l Selenastrum capricornutum (green algae)

<b>Molybdenum polysulphide long chain alkyl dithiocarbamate complex (-)</b>	
EC50 Daphnia 1	50 mg/l (48 h)
NOEC (acute)	94,8 mg/l (Oncorhynchus mykiss) 96h (OECD 203)
NOEC chronic algae	100 mg/l (Daphnia Magna) 21days

### 12.2. Persistence and degradability

<b>High Performance 4-stroke Marine Engine Oil SAE 25W50 Synthetic Blend</b>	
Persistence and degradability	Minimally biodegradable.

<b>zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate) (93819-94-4)</b>	
Biodegradation	1,5 % (OECD 301B) 28d

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<b>Nonylphenol, branched, ethoxylated (68412-54-4)</b>	
Persistence and degradability	Not readily biodegradable.
<b>Bis(nonylphenyl)amine (36878-20-3)</b>	
Persistence and degradability	Not readily biodegradable.
Biodegradation	1 % (28d)
<b>Molybdenum polysulphide long chain alkyl dithiocarbamate complex (-)</b>	
Persistence and degradability	Not readily biodegradable.
Biodegradation	22,75 % (OECD 301) (29d)

### 12.3. Bioaccumulative potential

<b>High Performance 4-stroke Marine Engine Oil SAE 25W50 Synthetic Blend</b>	
Partition coefficient n-octanol/water	No data available
Bioaccumulative potential	Bioaccumulative potential.
<b>zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate) (93819-94-4)</b>	
Partition coefficient n-octanol/water	0,9 (23 °C)
<b>Bis(nonylphenyl)amine (36878-20-3)</b>	
Bioconcentration factor (BCF)	1584,89
Log Kow	> 7,6
Bioaccumulative potential	Bioaccumulative potential.
<b>Molybdenum polysulphide long chain alkyl dithiocarbamate complex (-)</b>	
BCF fish 1	88 (OECD 305, Cyprinus carpio, 25°C)
<b>Phenol, dodecyl-, branched (121158-58-5)</b>	
Bioconcentration factor (BCF)	2,9 (27d)
Partition coefficient n-octanol/water	7,1 (0,1d)

### 12.4. Mobility in soil

<b>High Performance 4-stroke Marine Engine Oil SAE 25W50 Synthetic Blend</b>	
Ecology - soil	No data available.

### 12.5. Results of PBT and vPvB assessment

<b>High Performance 4-stroke Marine Engine Oil SAE 25W50 Synthetic Blend</b>	
Results of PBT assessment	Not applicable
<b>ingredient</b>	
Bis(nonylphenyl)amine (36878-20-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

### 12.6. Other adverse effects

Additional information : No data available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Do not allow to enter into surface water or drains. Dispose of empty containers and wastes safely. Safe handling: see section 7. Refer to manufacturer/supplier for information on recovery/recycling. Recycling is preferred to disposal or incineration. If recycling is not possible, eliminate in accordance with local valid waste disposal regulations.

Additional information : Handle contaminated packages in the same way as the substance itself. Dispose of contaminated materials in accordance with current regulations.

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European waste catalogue (2001/573/EC, 75/442/EEC, 91/689/EEC) : This material and its container must be disposed of as hazardous waste  
Waste codes should be assigned by the user based on the application for which the product was used.

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.2. UN proper shipping name</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

#### 14.6. Special precautions for user

Special precautions for user : No data available

#### - Overland transport

Not applicable

#### - Transport by sea

Not applicable

#### - Air transport

Not applicable

#### - Inland waterway transport

Not applicable

#### - Rail transport

Not applicable

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Code: IBC : No data available.

### SECTION 15: Regulatory information

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

##### 15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	High Performance 4-stroke Marine Engine Oil SAE 25W50 Synthetic Blend - Molybdenum polysulphide long chain alkyl dithiocarbamate complex - Phenol, dodecyl-, branched - zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate) - Nonylphenol, branched, ethoxylated - Bis(nonylphenyl)amine
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3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	Molybdenum polysulphide long chain alkyl dithiocarbamate complex - Phenol, dodecyl-, branched - zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate) - Nonylphenol, branched, ethoxylated
3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	High Performance 4-stroke Marine Engine Oil SAE 25W50 Synthetic Blend - Molybdenum polysulphide long chain alkyl dithiocarbamate complex - Phenol, dodecyl-, branched - zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate) - Nonylphenol, branched, ethoxylated - Bis(nonylphenyl)amine
46(b) Nonylphenol ethoxylates (C <sub>2</sub> H <sub>4</sub> O) <sub>n</sub> C <sub>15</sub> H <sub>24</sub> O	Nonylphenol, branched, ethoxylated

Contains a substance on the REACH candidate list in concentration  $\geq 0.1\%$  or with a lower specific limit: Nonylphenol, branched, ethoxylated (EC 500-209-1, CAS 68412-54-4)

Contains no REACH Annex XIV substances

#### 15.1.2. National regulations

France  
Installations classées :  
Not applicable.

#### Germany

VwVwS Annex reference : Water hazard class (WGK) 1, low hazard to waters (Classification according to VwVwS, Annex 4)  
German storage class (LGK) : LGK 12 - Non-combustible liquids  
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

#### Netherlands

Waterbezwaaarlijkheid : 8 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment  
Saneringsinspanningen : A - In principe niet lozen; zo ja, dan toepassen van beste bestaande technieken  
SZW-lijst van kankerverwekkende stoffen : Phenol, dodecyl-, branched is listed  
SZW-lijst van mutagene stoffen : Phenol, dodecyl-, branched is listed  
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed  
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed  
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : Phenol, dodecyl-, branched is listed

#### 15.2. Chemical safety assessment

<b>For the following substances of this mixture a chemical safety assessment has been carried out</b>
Molybdenum polysulphide long chain alkyl dithiocarbamate complex Phenol, dodecyl-, branched zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate) Bis(nonylphenyl)amine

#### SECTION 16: Other information

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Indication of changes:

1.2		Added	
1.2	Uses advised against	Added	
2	DSD/DPD	Removed	
2.1	Classification	Modified	
2.2	Label elements	Modified	
3	DSD/DPD	Removed	
3.2	Composition	Modified	
4.2	Eyes contact	Modified	
4.2	Ingestion	Modified	
5.2		Modified	
5.3		Modified	
8.1	Exposure limits	Modified	
8.2	Hand protection	Added	
11	Serious eye damage/irritation	Modified	
14		Modified	
15.1	National regulations	Added	
15.2		Modified	
16		Modified	

Abbreviations and acronyms:

	ABM = Algemene beoordelingsmethodiek
	ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin
	ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
	CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC
	IATA = International Air Transport Association
	IMDG = International Maritime Dangerous Goods Code
	LEL = Lower Explosive Limit/Lower Explosion Limit
	UEL = Upper Explosion Limit/Upper Explosive Limit
	REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
	BTT = Breakthrough time :
	DMEL = Derived Minimal Effect level
	DNEL = Derived No Effect Level
	EC50 = Median Effective Concentration
	EL50 = Median effective level
	ErC50 = EC50 in terms of reduction of growth rate
	ErL50 = EL50 in terms of reduction of growth rate
	EWC = European waste catalogue
	LC50 = Median lethal concentration
	LD50 = Median lethal dose
	LL50 = Median lethal level
	NA = Not applicable
	NOEC = No observed effect concentration
	NOEL: no-observed-effect level
	NOELR = No observed effect loading rate
	NOAEC = No observed adverse effect concentration
	NOAEL = No observed adverse effect level
	N.O.S. = Not Otherwise Specified
	OEL = Occupational Exposure Limits - Short Term Exposure Limits (STELs)
	PNEC = Predicted No-Effect Concentration
	Quantitative structure-activity relationship (QSAR)
	STOT = Specific Target Organ Toxicity
	TWA = time weighted average
	VOC = Volatile organic compounds (VOC) :
	WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)

Sources of key data used to compile the datasheet : ECHA (European Chemicals Agency), <http://www.echemportal.org>, Loli, Supplier sds.

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		Issue date : 12/04/2017
		Supersedes : 25/03/2015
		<b>766-01-0164S</b>

Training advice : Training staff on good practice.

Other information : Assessment/classification CLP. Article 9. Calculation method.

Full text of H- and EUH-statements:

Aquatic Acute 1	Hazardous to the aquatic environment - Aquatic Acute 1
Aquatic Chronic 1	Hazardous to the aquatic environment - chronic hazard category 1
Aquatic Chronic 2	Hazardous to the aquatic environment - chronic hazard category 2
Aquatic Chronic 3	Hazardous to the aquatic environment - chronic hazard category 3
Aquatic Chronic 4	Hazardous to the aquatic environment - chronic hazard category 4
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Repr. 2	Reproductive toxicity, Hazard Category 2
Skin Corr. 1C	Skin corrosion/irritation, Category 1C
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, hazard category 1
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H361f	Suspected of damaging fertility.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
EUH208	Contains . May produce an allergic reaction

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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

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

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