

# SAFETY DATA SHEET



## Valvoline™ EXTRA STRENGTH STARTING FLUID

Version	Revision Date:	SDS Number:	Date of last issue: 12/18/2018
4.0	10/16/2019	600000000539	Date of first issue: 05/23/2016

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### SECTION 1. IDENTIFICATION

Product name : VAL EXTRA STRENGTH STARTING FLD 12/11 OC

Product code : 602373

#### Manufacturer or supplier's details

Company name of supplier : Niteo Products, LLC

Address : Dallas TX 75225

Email Address : EHS@niteoproducts.com

Telephone : 1-844-696-4836

Emergency telephone number : 1-800-424-9300 / 1-703-741-5970

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

Recommended use : STARTING FLUID

Restrictions on use : Use only outdoors or in a well-ventilated area.

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### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with 29 CFR 1910.1200

Flammable aerosols : Category 1

Acute toxicity (Oral) : Category 4

Skin irritation : Category 2

Eye irritation : Category 2A

Carcinogenicity : Category 2

Reproductive toxicity : Category 2

Specific target organ toxicity - single exposure : Category 3 (Central nervous system)

Aspiration hazard : Category 1

#### GHS label elements

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Hazard pictograms

:



Signal word

:

Danger

Hazard statements

:

Extremely flammable aerosol.  
Harmful if swallowed.  
May be fatal if swallowed and enters airways.  
Causes skin irritation.  
Causes serious eye irritation.  
May cause drowsiness or dizziness.  
Suspected of causing cancer.  
Suspected of damaging the unborn child.

Precautionary statements

:

### Prevention:

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
Do not spray on an open flame or other ignition source.  
Pressurized container: Do not pierce or burn, even after use.  
Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
Wash skin thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves/ protective clothing/ eye protection/ face protection.

### Response:

IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
IF ON SKIN: Wash with plenty of soap and water.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
IF exposed or concerned: Get medical advice/ attention.  
Do NOT induce vomiting.  
If skin irritation occurs: Get medical advice/ attention.  
If eye irritation persists: Get medical advice/ attention.  
Take off contaminated clothing and wash before reuse.

### Storage:

Store in a well-ventilated place. Keep container tightly closed.  
Store locked up.  
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

### Disposal:

Dispose of contents/ container to an approved waste disposal plant.

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### Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Heptane, branched, cyclic and linear	426260-76-6	$\geq 50 - < 70$
Ethyl ether	60-29-7	$\geq 20 - < 30$
Carbon dioxide	124-38-9	$\geq 1 - < 5$
n-Heptane	142-82-5	$\geq 1 - < 5$
Ethanol	64-17-5	$\geq 1 - < 5$
Chloroethane	75-00-3	$\geq 0.1 - < 1$
Toluene	108-88-3	$\geq 0.1 - < 1$

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

## SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Symptoms of poisoning may appear several hours later.  
Do not leave the victim unattended.
- If inhaled : Move to fresh air.  
Consult a physician after significant exposure.  
If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : If on clothes, remove clothes.  
Remove contaminated clothing. If irritation develops, get medical attention.  
If on skin, rinse well with water.  
Wash contaminated clothing before re-use.  
If skin irritation persists, call a physician.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Obtain medical attention.  
Do NOT induce vomiting.  
Rinse mouth with water.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.
- Most important symptoms : Harmful if swallowed.

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and effects, both acute and delayed

May be fatal if swallowed and enters airways.  
Causes skin irritation.  
Causes serious eye irritation.  
May cause drowsiness or dizziness.  
Suspected of causing cancer.  
Suspected of damaging the unborn child.

### SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical  
Alcohol-resistant foam
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Carbon oxides
- Specific extinguishing methods : Product is compatible with standard fire-fighting agents.
- Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
Use a water spray to cool fully closed containers.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Remove all sources of ignition.  
Ensure adequate ventilation.  
Avoid breathing dust.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.  
Evacuate personnel to safe areas.  
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
- Environmental precautions : Prevent further leakage or spillage if safe to do so.  
Prevent product from entering drains.  
Do not flush into surface water or sanitary sewer system.  
If the product contaminates rivers and lakes or drains inform respective authorities.

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**SECTION 7. HANDLING AND STORAGE**

- Advice on protection against fire and explosion : Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).  
Keep away from open flames, hot surfaces and sources of ignition.  
Use only explosion-proof equipment.  
Do not spray on a naked flame or any incandescent material.
- Advice on safe handling : Open drum carefully as content may be under pressure.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Do not breathe vapours/dust.  
Do not smoke.  
Take precautionary measures against static discharges.  
Avoid contact with skin and eyes.  
Dispose of rinse water in accordance with local and national regulations.  
Container hazardous when empty.  
Smoking, eating and drinking should be prohibited in the application area.  
For personal protection see section 8.
- Conditions for safe storage : BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects.  
Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Observe label precautions.  
No smoking.
- Further information on storage stability : No decomposition if stored and applied as directed.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**
**Components with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Heptane, branched, cyclic and linear	426260-76-6	TWA	400 ppm	ACGIH
		STEL	500 ppm	ACGIH
Ethyl ether	60-29-7	TWA	400 ppm	ACGIH
		STEL	500 ppm	ACGIH
		TWA	400 ppm 1,200 mg/m <sup>3</sup>	OSHA Z-1
		TWA	400 ppm 1,200 mg/m <sup>3</sup>	OSHA P0
		STEL	500 ppm	OSHA P0

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			1,500 mg/m3	
Carbon dioxide	124-38-9	TWA	5,000 ppm	ACGIH
		STEL	30,000 ppm	ACGIH
		TWA	5,000 ppm 9,000 mg/m3	NIOSH REL
		ST	30,000 ppm 54,000 mg/m3	NIOSH REL
		TWA	5,000 ppm 9,000 mg/m3	OSHA Z-1
		TWA	10,000 ppm 18,000 mg/m3	OSHA P0
		STEL	30,000 ppm 54,000 mg/m3	OSHA P0
n-Heptane	142-82-5	TWA	85 ppm 350 mg/m3	NIOSH REL
		C	440 ppm 1,800 mg/m3	NIOSH REL
		TWA	500 ppm 2,000 mg/m3	OSHA Z-1
		TWA	400 ppm 1,600 mg/m3	OSHA P0
		STEL	500 ppm 2,000 mg/m3	OSHA P0
		TWA	400 ppm	ACGIH
		STEL	500 ppm	ACGIH
Ethanol	64-17-5	STEL	1,000 ppm	ACGIH
		TWA	1,000 ppm 1,900 mg/m3	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m3	OSHA Z-1
		TWA	1,000 ppm 1,900 mg/m3	OSHA P0
Chloroethane	75-00-3	TWA	100 ppm	ACGIH
		TWA	1,000 ppm 2,600 mg/m3	OSHA Z-1
		TWA	1,000 ppm 2,600 mg/m3	OSHA P0
Toluene	108-88-3	TWA	20 ppm	ACGIH
		TWA	100 ppm 375 mg/m3	NIOSH REL
		ST	150 ppm 560 mg/m3	NIOSH REL
		TWA	200 ppm	OSHA Z-2
		CEIL	300 ppm	OSHA Z-2
		Peak	500 ppm (10 minutes)	OSHA Z-2
		TWA	100 ppm 375 mg/m3	OSHA P0
		STEL	150 ppm 560 mg/m3	OSHA P0

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### Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sam-pling time	Permissible concentra-tion	Basis
Toluene	108-88-3	Toluene	In blood	Prior to last shift of work-week	0.02 mg/l	ACGIH BEI
		Toluene	Urine	End of shift (As soon as possible after exposure ceases)	0.03 mg/l	ACGIH BEI
		o-Cresol	Urine	End of shift (As soon as possible after exposure ceases)	0.3 mg/g Creatinine	ACGIH BEI

**Engineering measures** : Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

### Personal protective equipment

**Respiratory protection** : In the case of vapour formation use a respirator with an approved filter.  
In the case of dust or aerosol formation use respirator with an approved filter.

**Hand protection**

**Remarks** : Wear resistant gloves (consult your safety equipment supplier). The suitability for a specific workplace should be discussed with the producers of the protective gloves. Discard gloves that show tears, pinholes, or signs of wear.

**Eye protection** : Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

**Skin and body protection** : Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
Wear as appropriate:  
Impervious clothing  
Flame-resistant clothing  
Safety shoes

**Hygiene measures** : Handle in accordance with good industrial hygiene and safety practice.  
When using do not smoke.

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When using do not eat or drink.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	aerosol
Colour	:	colourless
Odour	:	ether-like
pH	:	No data available
Melting point/freezing point	:	No data available
Boiling point/boiling range	:	34.6 °C (1,013.232 hPa) The value is calculated
Flash point	:	-45 °C The value is calculated
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Self-ignition	:	No data available
Upper explosion limit / Upper flammability limit	:	36.5 %(V) The value is calculated
Lower explosion limit / Lower flammability limit	:	1.05 %(V) The value is calculated
Vapour pressure	:	717.26 hPa (25 °C) The value is calculated
Density	:	0.706 g/cm3 (15.56 °C)
Solubility(ies) Water solubility	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Viscosity Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Oxidizing properties	:	No data available
VOC % By Weight	:	99.5 %

### SECTION 10. STABILITY AND REACTIVITY



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Reactivity	:	No decomposition if stored and applied as directed.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	No decomposition if stored and applied as directed. Vapours may form explosive mixture with air.
Conditions to avoid	:	Heat, flames and sparks.
Incompatible materials	:	Acids Alkali metals Ammonia Bases halogens Oxidizing agents Sulphur compounds
Hazardous decomposition products	:	Carbon oxides
Hazardous decomposition products	:	

**SECTION 11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**

Inhalation  
Eye contact  
Skin contact  
Ingestion

**Acute toxicity**

Harmful if swallowed.

**Product:**

Acute oral toxicity	:	Acute toxicity estimate: 1,708 mg/kg Method: Calculation method
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**Components:****Ethyl ether:**

Acute oral toxicity	:	LD50 (Rat): 1,200 - 1,700 mg/kg
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**n-Heptane:**

Acute oral toxicity	:	LD50 (Rat): Expected > 5,000 mg/kg Remarks: Information given is based on data obtained from similar substances.
Acute inhalation toxicity	:	LC50 (Rat, male and female): > 29.29 mg/l Exposure time: 4 h Test atmosphere: vapour Method: OECD Test Guideline 403 Assessment: No adverse effect has been observed in acute inhalation toxicity tests.

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Acute dermal toxicity : LD50 (Rabbit): Expected > 2,000 mg/kg  
Assessment: No adverse effect has been observed in acute dermal toxicity tests.  
Remarks: Information given is based on data obtained from similar substances.

### Ethanol:

Acute oral toxicity : LD50 (Rat): 7,060 mg/kg

Acute inhalation toxicity : LC50 (Rat): 117 - 125 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

Acute dermal toxicity : LDLo (Rabbit): 20 g/kg

### Chloroethane:

Acute inhalation toxicity : LC50 (Rat): > 19000 ppm  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403

### Toluene:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat, males): 25.7 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): 12,124 mg/kg

### Skin corrosion/irritation

Causes skin irritation.

### Product:

Remarks: May cause skin irritation and/or dermatitis.

### Components:

#### Heptane, branched, cyclic and linear:

Result: Irritating to skin.

#### Ethyl ether:

Result: Irritating to skin.

#### Carbon dioxide:

Assessment: No skin irritation  
Result: No skin irritation

#### n-Heptane:

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Result: Irritating to skin.

### **Ethanol:**

Result: Possibly irritating to skin

### **Chloroethane:**

Result: Possibly irritating to skin

### **Toluene:**

Result: Irritating to skin.

### **Serious eye damage/eye irritation**

Causes serious eye irritation.

### **Product:**

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin.

### **Components:**

#### **Heptane, branched, cyclic and linear:**

Result: Possibly irritating to eyes

#### **Ethyl ether:**

Result: Irritating to eyes.

#### **Carbon dioxide:**

Result: No eye irritation

#### **n-Heptane:**

Result: Possibly irritating to eyes

#### **Ethanol:**

Result: Irritating to eyes.

#### **Chloroethane:**

Result: Possibly irritating to eyes

#### **Toluene:**

Result: Irritating to eyes.

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

Not classified based on available information.

#### **Respiratory sensitisation**

Not classified based on available information.

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**Components:****Heptane, branched, cyclic and linear:**

Result: Substance is not considered to be potential skin sensitiser.

**n-Heptane:**

Test Type: Maximisation Test

Species: Guinea pig

Result: Did not cause sensitisation on laboratory animals.

Remarks: Information given is based on data obtained from similar substances.

**Germ cell mutagenicity**

Not classified based on available information.

**Components:****n-Heptane:**

Genotoxicity in vitro : Remarks: In vitro tests did not show mutagenic effects

**Carcinogenicity**

Suspected of causing cancer.

**Components:****Chloroethane:**

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies

**IARC**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA**

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Reproductive toxicity**

Suspected of damaging the unborn child.

**Components:****Toluene:**

Reproductive toxicity - Assessment : Some evidence of adverse effects on development, based on animal experiments.

**STOT - single exposure**

May cause drowsiness or dizziness.

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**Components:**

**Heptane, branched, cyclic and linear:**

Exposure routes: Inhalation

Target Organs: Central nervous system

Assessment: May cause drowsiness or dizziness.

**Ethyl ether:**

Assessment: May cause drowsiness or dizziness.

**n-Heptane:**

Assessment: May cause drowsiness or dizziness.

**Ethanol:**

Assessment: May cause drowsiness or dizziness.

**Toluene:**

Exposure routes: Inhalation

Target Organs: Central nervous system

Assessment: May cause drowsiness or dizziness.

**STOT - repeated exposure**

Not classified based on available information.

**Components:**

**Toluene:**

Exposure routes: Inhalation

Target Organs: Neurologic: other (neuropsychological effects, auditory dysfunction and effects on color vision)

Assessment: May cause damage to organs through prolonged or repeated exposure.

**Aspiration toxicity**

May be fatal if swallowed and enters airways.

**Components:**

**Heptane, branched, cyclic and linear:**

May be fatal if swallowed and enters airways.

**n-Heptane:**

May be fatal if swallowed and enters airways.

**Toluene:**

May be fatal if swallowed and enters airways.

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### Further information

#### Product:

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

## SECTION 12. ECOLOGICAL INFORMATION

### Toxicity

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life with long lasting effects.

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : Dispose of in accordance with all applicable local, state and federal regulations.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

## SECTION 14. TRANSPORT INFORMATION

Dangerous goods descriptions (if indicated below) may not reflect quantity, end-use, or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

### International Regulations

#### IATA-DGR

UN/ID No. : UN 1950  
Proper shipping name : Aerosols, flammable  
Class : 2.1  
Packing group : Not assigned by regulation  
Labels : 2.1  
Packing instruction (cargo aircraft) : 203  
Packing instruction (passenger aircraft) : 203

#### IMDG-Code

UN number : UN 1950  
Proper shipping name : AEROSOLS  
Class : 2.1  
Packing group : Not assigned by regulation  
Labels : 2.1  
EmS Code : F-D, S-U  
Marine pollutant : no

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

Not applicable for product as supplied.

### National Regulations

#### 49 CFR

UN/ID/NA number : UN 1950  
Proper shipping name : Aerosols

Class : 2.1  
Packing group : Not assigned by regulation  
Labels : 2.1  
ERG Code : 126  
Marine pollutant : no

## SECTION 15. REGULATORY INFORMATION

### EPCRA - Emergency Planning and Community Right-to-Know Act

#### CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Ethyl ether	60-29-7	100	341
Ethyl ether	60-29-7	100	100 (F003)
Methanol	67-56-1	100	100 (F003)
Toluene	108-88-3	100	100 (F005)
Benzene	71-43-2	10	10 (D018)

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Sulfur dioxide	7446-09-5	500	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

#### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : Flammable (gases, aerosols, liquids, or solids)  
Acute toxicity (any route of exposure)  
Skin corrosion or irritation  
Serious eye damage or eye irritation  
Carcinogenicity  
Reproductive toxicity  
Specific target organ toxicity (single or repeated exposure)  
Aspiration hazard

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### California Prop. 65

WARNING: This product can expose you to chemicals including Chloroethane, Naphthalene, Benzene, which is/are known to the State of California to cause cancer, and Toluene, Methanol,

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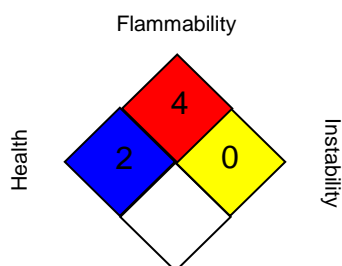
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Sulfur dioxide, Benzene, Methyl chloride, n-Hexane, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### SECTION 16. OTHER INFORMATION

#### Further information

##### NFPA:



Special hazard.

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.

US / EN