

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 24/03/2018 Revision date:

Version: 1.0

## SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier Product form : Mixture Product name : 1,3-Dinitrobenzene Standard Product code AL0-101706 Product group : Trade product 1.2. Relevant identified uses of the substance or mixture and uses advised against 1.2.1. **Relevant identified uses** Main use category : Laboratory Use Industrial/Professional use spec : For professional use only Industrial Use of the substance/mixture : Certified reference material for laboratory use only 1.2.2. Uses advised against No additional information available 1.3. Details of the supplier of the safety data sheet Phenova 6390 Joyce Dr. Suite 100 80403 Golden, CO - United States T 1-866-942-2978 - F 1-866-283-0269 info@phenova.com - www.phenova.com 1.4. Emergency telephone number Emergency number ChemTel Assistance (US/Canada) 1-800-255-3924 : ChemTel Assistance (International) +1 813-248-0585 **SECTION 2: Hazards identification** 2.1. Classification of the substance or mixture Classification according to Regulation (EC) No. 1272/2008 [CLP] H302 Acute Tox. 4 (Oral) H312 Acute Tox. 4 (Dermal) H332 Acute Tox. 4 (Inhalation) Carc. 2 H351 Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD] Carc.Cat.3; R40 Xn; R20/21/22 Full text of R-phrases: see section 16 Adverse physicochemical, human health and environmental effects 2.2. Label elements Labeling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) GHS07 GHS08 Signal word (CLP) : Warning

No additional information available

Hazardous ingredients

Hazard statements (CLP)

1,3-dinitrobenzene; Methylene Chloride

H351 - Suspected of causing cancer

H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Precautionary statements (CLP)	<ul> <li>P261 - Avoid breathing dust/fume/gas/mist/vapors/spray</li> <li>P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting</li> <li>P270 - Do not eat, drink or smoke when using this product</li> <li>P271 - Use only outdoors or in a well-ventilated area</li> <li>P280 - Wear protective gloves, protective clothing, eye protection, face protection</li> <li>P303+P361+P353+P310 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor</li> <li>P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing</li> <li>P308+P313 - IF exposed or concerned: Get medical advice/attention</li> <li>P362+P364 - Take off contaminated clothing and wash it before reuse</li> <li>P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation</li> </ul>
No labeling applicable	

No labeling applicable

## 2.3. Other hazards No additional information available

SECTI	ON 3: Composition/Information on ingredients
3.1.	Substances

## Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Methylene Chloride	(CAS No) 75-09-2 (EC-No.) 200-838-9 (EC index no) 602-004-00-3	99.8	Carc. 2, H351
1,3-dinitrobenzene	(CAS No) 99-65-0 (EC-No.) 202-776-8 (EC index no) 609-004-00-2	0.2	Acute Tox. 2 (Oral), H300 Acute Tox. 1 (Dermal), H310 Acute Tox. 2 (Inhalation), H330 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

SECTION 4: First aid measures	
4.1. Description of first aid measure	3
First-aid measures general	: Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	: Allow victim to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
4.2. Most important symptoms and e	ffects, both acute and delayed
No additional information available	
4.3. Indication of any immediate med	lical attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measure	S
5.1. Extinguishing media	
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the	substance or mixture
No additional information available	
5.3. Advice for firefighters	
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

according to Regulation (EC) No. 1907/2000 (REACT	
SECTION 6: Accidental release m	easures
6.1. Personal precautions, protective	equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
Prevent entry to sewers and public waters. N	otify authorities if liquid enters sewers or public waters.
6.3. Methods and material for contain	ment and cleaning up
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
6.4. Reference to other sections	
See Heading 8. Exposure controls and perso	nal protection.
<b>SECTION 7: Handling and storage</b>	
7.1. Precautions for safe handling	
Precautions for safe handling	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
Hygiene measures	: Gently wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, inclu	uding any incompatibilities
Storage conditions	: Keep container closed when not in use. Keep container tightly closed and in a well-ventilated place. Keep away from any flames or sparking source.
Incompatible products	: Strong bases. Strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight.
7.3. Specific end use(s)	
No additional information available	

No additional information available

## SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Methylene Chloride (75-09-2)	)	
Belgium	Limit value (mg/m³)	177 mg/m <sup>3</sup> (Chlorure de méthylène; Belgium; Time- weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	50 ppm (Chlorure de méthylène; Belgium; Time- weighted average exposure limit 8 h)
France	VLE (mg/m³)	356 mg/m³ (Dichlorométhane; France; Short time value; VRC: Valeur réglementaire contraignante)
France	VLE (ppm)	100 ppm (Dichlorométhane; France; Short time value; VRC: Valeur réglementaire contraignante)
France	VME (mg/m³)	178 mg/m <sup>3</sup> (Dichlorométhane; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
France	VME (ppm)	50 ppm (Dichlorométhane; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	50 ppm (Dichloromethane (Methylene chloride); USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
United Kingdom	WEL TWA (mg/m³)	350 mg/m <sup>3</sup> Dichloromethane; United Kingdom; Time- weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL TWA (ppm)	100 ppm Dichloromethane; United Kingdom; Time- weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	1060 mg/m <sup>3</sup> Dichloromethane; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (ppm)	300 ppm Dichloromethane; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

1,3-dinitrobenzene (99-65-0)		
Belgium	Limit value (mg/m³)	1 mg/m³ (Dinitrobenzène (tous isomères); Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	0.15 ppm (Dinitrobenzène (tous isomères); Belgium; Time-weighted average exposure limit 8 h)
France	VME (mg/m³)	1 mg/m³ (Dinitrobenzène (tous isomères); France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
France	VME (ppm)	0.15 ppm (Dinitrobenzène (tous isomères); France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	0.15 ppm (Dinitrobenzene, all isomers; USA; Time- weighted average exposure limit 8 h; TLV - Adopted Value)
United Kingdom	WEL TWA (mg/m³)	1 mg/m <sup>3</sup> Dinitrobenzene, all isomers; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL TWA (ppm)	0.15 ppm Dinitrobenzene, all isomers; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (mg/m³)	3.5 mg/m <sup>3</sup> Dinitrobenzene, all isomers; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (ppm)	0.5 ppm Dinitrobenzene, all isomers; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)

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8.2. Exposure controls
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Appropriate engineering controls Personal protective equipment

- : Either local exhaust or general room ventilation is usually required.
- : Avoid all unnecessary exposure. Gloves. Protective clothing. Protective goggles. Safety glasses.



Hand protection	: Wear chemically resistant protective gloves. Wear suitable gloves resistant to chemical penetration.
Eye protection	: Chemical goggles or safety glasses. Safety glasses.
Skin and body protection	: Wear chemically protective gloves, lab coat or apron to prevent prolonged or repeated skin contact.
Respiratory protection	: Wear appropriate mask.
Other information	: Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

9.1. Information on basic physi	ical and chemical properties
Physical state	: Liquid
Color	: Colorless.
Odor	: characteristic.
рН	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Relative density	: No data available
Solubility	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: No data available

## **1,3-Dinitrobenzene Standard** Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Not established.	
10.3. Possibility of hazardous reactions	
Not established.	
10.4. Conditions to avoid	
Direct sunlight. Extremely high or low temperature	S.
10.5. Incompatible materials	
Strong acids. Strong bases.	
10.6. Hazardous decomposition products	
fume. Carbon monoxide. Carbon dioxide.	
<b>SECTION 11: Toxicological informatic</b>	on
11.1. Information on toxicological effects	
Acute toxicity	: Oral: Harmful if swallowed. Dermal: Harmful in contact with skin. Inhalation: Harmful if inhaled.
1,3-Dinitrobenzene Standard	
ATE CLP (oral)	500 mg/kg body weight
ATE CLP (dermal)	1100 mg/kg body weight
ATE CLP (gases)	4500 ppmV/4h
ATE CLP (vapors)	11 mg/l/4h
ATE CLP (dust, mist)	1.5 mg/l/4h
Methylene Chloride (75-09-2)	
LD50 oral rat	> 2000 mg/kg (Rat; Literature study)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit; Literature study)
1,3-dinitrobenzene (99-65-0)	
LD50 oral rat	60 mg/kg (Rat)
LD50 dermal rat	1200 mg/kg (Rat)
ATE CLP (oral)	5 mg/kg body weight
ATE CLP (dermal)	5 mg/kg body weight
ATE CLP (gases)	100 ppmV/4h
ATE CLP (vapors)	0.5 mg/l/4h
ATE CLP (dust, mist)	0.05 mg/l/4h
	: Not classified
	Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Not classified
	Based on available data, the classification criteria are not met
Respiratory or skin sensitization	: Not classified
	Based on available data, the classification criteria are not met
Germ cell mutagenicity	Not classified
	Based on available data, the classification criteria are not met
Carcinogenicity	: Suspected of causing cancer.
<i>c</i> , <i>j</i>	May cause cancer
Reproductive toxicity	: Not classified
	Based on available data, the classification criteria are not met
Specific target organ toxicity	: Not classified
Specific target organ toxicity – single exposure	
	Based on available data, the classification criteria are not met
Specific target organ toxicity – repeated	: Not classified
exposure	Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified
	Based on available data, the classification criteria are not met

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Potential Adverse human health effects and : Based on available data, the classification criteria are not met. symptoms

SECTION 12: Ecological information		
2.1. Toxicity		
Methylene Chloride (75-09-2)		
LC50 fish 1	193 mg/l (LC50; 96 h; Pimephales promelas)	
EC50 Daphnia 1	168.2 mg/l (EC50; 48 h)	
1,3-dinitrobenzene (99-65-0)		
LC50 fish 1	1.7 mg/l (LC50; 96 h)	
EC50 Daphnia 1	27.4 mg/l (EC50; 48 h)	
2.2. Persistence and degradability		
1,3-Dinitrobenzene Standard	Netestelisted	
Persistence and degradability	Not established.	
Methylene Chloride (75-09-2)		
Persistence and degradability	Not readily biodegradable in water. Biodegradable in the soil.	
1,3-dinitrobenzene (99-65-0)		
Persistence and degradability	Not readily biodegradable in water. Non degradable in the soil.	
2.3. Bioaccumulative potential		
1,3-Dinitrobenzene Standard		
Bioaccumulative potential	Not established.	
Methylene Chloride (75-09-2)		
BCF fish 1	2 - 40 (BCF)	
Log Pow	1.25 (Experimental value)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	
1,3-dinitrobenzene (99-65-0)		
BCF fish 1	4.5 - 7.5 (BCF; 72 h)	
BCF fish 2	74.13 (BCF)	
Log Pow	1.49 - 1.6	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	
2.4. Mobility in soil		
Methylene Chloride (75-09-2)		
Surface tension	0.028 N/m (20 °C)	
Ecology - soil	May be harmful to plant growth, blooming and fruit formation.	
2.5. Results of PBT and vPvB assessme	nt	
o additional information available		
2.6. Other adverse effects		
dditional information	: Avoid release to the environment	
ECTION 13: Disposal consideration	1S	
3.1. Waste treatment methods		
roduct/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.	
cology - waste materials	: Avoid release to the environment.	
ECTION 14: Transport information		
accordance with ADR / RID / IMDG / IATA / A	RN	
4.1. UN number	JN	
N-No. (ADR)	: 2810	
N-NO. (ADR) N-No. (IATA)	2810	
N-No. (IMDG)	2810	
N-No. (ADN)	: 2810	
· · · ·	. 2010	
4.2. UN proper shipping name		
roper Shipping Name (ADR)	TOXIC LIQUID, ORGANIC, N.O.S.	
roper Shipping Name (IATA)	: Toxic liquid, organic, n.o.s.	
roper Shipping Name (IMDG)	: TOXIC LIQUID, ORGANIC, N.O.S.	
roper Shipping Name (ADN)	: TOXIC LIQUID, ORGANIC, N.O.S.	
4/03/2018	EN (English US)	(

# **1,3-Dinitrobenzene Standard** Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

ransport document description (ADR)	: UN 2810 TOXIC LIQUID, ORGANIC, N.O.S., 6.1, III, (E)
4.3. Packing group	
Class (ADR)	: 6.1
Classification code (ADR)	: T1
	: 6.1
Class (IATA)	
Class (IMDG)	: 6.1
Class (ADN)	: 6.1
Classification code (ADN)	: T1
lazard labels (ADR)	: 6.1
	6
Division (IATA)	: 6.1
lazard labels (IATA)	: 6.1
	6
Hazard labels (IMDG)	: 6.1
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lazard labels (ADN)	: 6.1
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Packing group (ADR)	: III . III
Packing group (ADR) Packing group (IATA)	: 111
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Packing group (ADR) Packing group (IATA) Packing group (IMDG) Packing group (ADN) 4.5. Environmental hazards Other information 4.6. Special precautions for user 4.6.1. Overland transport	: III : III : III
Packing group (ADR) Packing group (IATA) Packing group (IMDG) Packing group (ADN) 4.5. Environmental hazards Other information 4.6. Special precautions for user 4.6.1. Overland transport Hazard identification number (Kemler No.)	<ul> <li>III</li> <li>III</li> <li>III</li> <li>No supplementary information available.</li> </ul>
Packing group (ADR) Packing group (IATA) Packing group (IMDG) Packing group (ADN) 4.5. Environmental hazards Other information 4.6. Special precautions for user 4.6.1. Overland transport Hazard identification number (Kemler No.) Classification code (ADR)	<ul> <li>III</li> <li>III</li> <li>III</li> <li>No supplementary information available.</li> <li>60</li> <li>T1</li> </ul>
Packing group (ADR) Packing group (IATA) Packing group (IMDG) Packing group (ADN) 4.5. Environmental hazards Other information 4.6. Special precautions for user 4.6.1. Overland transport Hazard identification number (Kemler No.) Classification code (ADR)	<ul> <li>III</li> <li>IIIII</li> <li>III</li> <li>IIII</li> <li>III</li> <li>IIII</li> <li>IIII</li> <li>IIII</li> <li>IIIII</li> <li>IIII</li> <li>IIII</li> <li>IIII</li> <li>IIII</li> &lt;</ul>
<ul> <li>Packing group (ADR)</li> <li>Packing group (IATA)</li> <li>Packing group (IMDG)</li> <li>Packing group (ADN)</li> <li>4.5. Environmental hazards</li> <li>Pother information</li> <li>4.6. Special precautions for user</li> <li>4.6.1. Overland transport</li> <li>Pacard identification number (Kemler No.)</li> <li>Pacassification code (ADR)</li> <li>Prange plates</li> </ul>	<ul> <li>III</li> <li>III</li> <li>III</li> <li>No supplementary information available.</li> <li>60</li> <li>T1</li> <li>60</li> </ul>
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Packing group (ADR)         Packing group (IMDG)         Packing group (ADN)         4.5. Environmental hazards         Dther information         4.6. Special precautions for user         4.6.1. Overland transport         Hazard identification number (Kemler No.)         Classification code (ADR)         Orange plates         Special provision (ADR)         Transport category (ADR)         Tunnel restriction code (ADR)         Scepted quantities (ADR)         Excepted quantities (ADR)         EAC         APP         4.6.2. Transport by sea         Special provision (IMDG)	: III : III : No supplementary information available. : $60$ : T1 : $60$ 2810 : 274, 614 : 2 : 274, 614 : 2 : 5 : 5 : 5 : 51 : 2x : B : 223, 274
Packing group (ADR)         Packing group (IMDG)         Packing group (ADN)         4.5.       Environmental hazards         Dther information         4.6.       Special precautions for user         4.6.1.       Overland transport         Hazard identification number (Kemler No.)         Classification code (ADR)         Drange plates         Special provision (ADR)         Transport category (ADR)         Tunnel restriction code (ADR)         Excepted quantities (ADR)         Excepted quantities (ADR)         EAC         APP         4.6.2.       Transport by sea         Especial provision (IMDG)         Limited quantities (IMDG)	: III : III : No supplementary information available. : 60 : T1 : $60$ 2810 : 274, 614 : 2 : 274, 614 : 2 : 5 : 5 : 51 : 2x : B : 223, 274 : 5 L
Packing group (ADR)         Packing group (IMDG)         Packing group (ADN) <b>14.5.</b> Environmental hazards         Dther information <b>14.6.</b> Special precautions for user <b>14.6.1.</b> Overland transport         Hazard identification number (Kemler No.)         Classification code (ADR)         Orange plates         Special provision (ADR)         Transport category (ADR)         Tunnel restriction code (ADR)         Scepted quantities (ADR)         Excepted quantities (ADR)         EAC         APP <b>14.6.2.</b> Transport by sea         Special provision (IMDG)	: III : III : No supplementary information available. : $60$ : T1 : $60$ 2810 : 274, 614 : 2 : 274, 614 : 2 : 5 : 5 : 5 : 51 : 2x : B : 223, 274

## Safety Data Sheet

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

according to Regulation (EC) No. 1907/2000 (REACIT) w	
Packing instructions (IMDG)	: P001, LP01
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T7
Tank special provisions (IMDG)	: TP1, TP28
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-A
Stowage category (IMDG)	: A
Properties and observations (IMDG)	: Toxic if swallowed, by skin contact or by inhalation.
14.6.3. Air transport	
CAO packing instructions (IATA)	: 663
CAO max net quantity (IATA)	: 220L
PCA packing instructions (IATA)	: 655
PCA Limited quantities (IATA)	: Y642
PCA limited quantity max net quantity (IATA)	: 2L
PCA max net quantity (IATA)	: 60L
PCA Excepted quantities (IATA)	: E1
Special provision (IATA)	: A3, A4, A137
ERG code (IATA)	: 6L
14.6.4. Inland waterway transport	
Special provision (ADN)	: 274, 614, 802
Limited quantities (ADN)	: 5L
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP, EP, TOX, A
Ventilation (ADN)	: VE02
Number of blue cones/lights (ADN)	: 0
Carriage prohibited (ADN)	: No

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

## Not applicable

## SECTION 15: Regulatory information

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

## 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions Contains no REACH candidate substance Contains no REACH Annex XIV substances.

## 15.1.2. National regulations

Water hazard class (WGK)

### Germany

: 2 - hazardous to water

15.2. Chemical safety assessment No chemical safety assessment has been carried out

# SECTION 16: Other information Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. Other information : None.

PHV SDS EU

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