

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 23/05/2018 Revision date: :

Version: 1.0

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

1.1. Product identifier	

Product code

Product form	:
Product name	:

- : Mixture : Cyclohexanes Mix
 - : AL0-130328

1.2.	Relevant identified uses of	the substance or mixture and uses advised against
1.2.1.	Relevant identified uses	
Main us	e category	: Laboratory Use
Industri	al/Professional use spec	: Industrial For professional use only
Use of t	he substance/mixture	: Certified reference material for laboratory use only
1.2.2. No addi	Uses advised against itional information available	
1.3.	Details of the supplier of the	e safety data sheet
80403 (T 1-866	a byce Dr. Suite 100 Golden, CO - United States -942-2978 - F 1-866-283-0269 <u>nenova.com</u> - <u>www.phenova.cor</u>	<u>n</u>
1.4.	Emergency telephone numb	per
Emerge	ncy number	: ChemTel Assistance (US/Canada) 1-800-255-3924 ChemTel Assistance (International) +1 813-248-0585
SECT	ION 2: Hazards identific	ation
2.1.	Classification of the substa	nce or mixture
Classif	ication according to Regulatio	n (EC) No. 1272/2008 [CLP]

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

Flam. Liq. 2	H225
Acute Tox. 3 (Oral)	H301
Acute Tox. 3 (Dermal)	H311
Acute Tox. 3 (Inhalation:dust,mist)	H331
STOT SE 1	H370

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

F; R11 T; R23/24/25 T; R39/23/24/25

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements				
Labeling according to Regulation (EC) No. 1272/2008 [CLP]				
Hazard pictograms (CLP)	: GHS02 GHS06 GHS08			
Signal word (CLP)	: Danger			
Hazardous ingredients	: methanol			
Hazard statements (CLP)	: H225 - Highly flammable liquid and vapor H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled			

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	H370 - Causes damage to organs
Precautionary statements (CLP)	 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking P233 - Keep container tightly closed P260 - Do not breathe dust/fume/gas/mist/vapors/spray P270 - Do not eat, drink or smoke when using this product P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing P361+P364 - Take off immediately all contaminated clothing and wash it before reuse P370+P378 - In case of fire: Use media other than water to extinguish P403+P233 - Store in a well-ventilated place. Keep container tightly closed P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

No labeling applicable

2.3. Other hazards

No additional information available

SECTION 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]
methanol	(CAS No) 67-56-1 (EC-No.) 200-659-6 (EC index no) 603-001-00-X	99.8	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT SE 1, H370
cyclohexane	(CAS No) 110-82-7 (EC-No.) 203-806-2 (EC index no) 601-017-00-1	0.2	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
methylcyclohexane	(CAS No) 108-87-2 (EC-No.) 203-624-3 (EC index no) 601-018-00-7	0.2	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Chronic 2, H411
Name	Product identifier	Specific of	concentration limits
methanol	(CAS No) 67-56-1 (EC-No.) 200-659-6 (EC index no) 603-001-00-X		0) STOT SE 2, H371 STOT SE 1, H370

SECTION 4: First aid measures

4.1. Description of first aid measures	
First-aid measures general	 Never give anything by mouth to an unconscious person. Call a POISON CENTER or doctor/physician. IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.
First-aid measures after skin contact	 Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Immediately call a poison center or doctor/physician. Wash with plenty of soap and water. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Immediately call a poison center or doctor/physician.
4.2. Most important symptoms and ef	fects, both acute and delayed
Symptoms/effects after inhalation	: Toxic if inhaled. Danger of serious damage to health by prolonged exposure through inhalation
Symptoms/effects after skin contact	: Repeated exposure to this material can result in absorption through skin causing significant health hazard. Toxic in contact with skin.
Symptoms/effects after ingestion	: Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard.
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	mediate medical attention and special tr	eatment needed
No additional information available		
SECTION 5: Firefighting 5.1. Extinguishing media		
Suitable extinguishing media		dia appropriate for surrounding fire.
Unsuitable extinguishing media		
	ing from the substance or mixture	
Fire hazard	: Highly flammable liqu	d and vapor.
Explosion hazard		explosive vapor-air mixture.
5.3. Advice for firefighter	rs	
Firefighting instructions	: Use water spray or fo	g for cooling exposed containers. Exercise caution when fighting any
Desta di su dania a fira fi dati a		fire-fighting water from entering environment.
Protection during firefighting		without proper protective equipment, including respiratory protection.
SECTION 6: Accidental		
	s, protective equipment and emergency	procedures
6.1.1. For non-emergency	•	
Emergency procedures	: Evacuate unnecessar	y personnei.
6.1.2. For emergency resp		
Protective equipment		ith proper protection. Avoid breathing dust/fume/gas/mist/vapors/spray.
Emergency procedures	: Ventilate area.	
6.2. Environmental preca		a course er public watere
	blic waters. Notify authorities if liquid enters	s sewers of public waters.
6.3. Methods and materia Methods for cleaning up	al for containment and cleaning up	material. Collect spillage.
	-	
6.4. Reference to other s See Heading 8. Exposure control		
SECTION 7: Handling an		
7.1. Precautions for safe Additional hazards when proces		ers with care because residual vapors are flammable.
Precautions for safe handling		er exposed areas with mild soap and water before eating, drinking or
Ū.	smoking and when lea	aving work. Provide good ventilation in process area to prevent formation nes. No smoking. Use only non-sparking tools. Use only outdoors or in a
Hygiene measures		noke when using this product. Gently wash with plenty of soap and water.
	Remove/Take off imm reuse.	ediately all contaminated clothing. Wash contaminated clothing before
7.2. Conditions for safe s	storage, including any incompatibilities	
Technical measures	: Proper grounding pro	cedures to avoid static electricity should be followed. Ground/bond
Storage conditions	container and receivir	ig equipment. e. Keep container tightly closed. Keep container tightly closed and in a
Clorage conditions	well-ventilated place.	Keep away from any flames or sparking source.
Incompatible materials	: Direct sunlight. Heat s	sources.
7.3. Specific end use(s)	bla	
No additional information availa		
	controls/personal protection	
8.1. Control parameters		
cyclohexane (110-82-7)		
EU	IOELV TWA (mg/m³)	700 mg/m ³ (Cyclohexane; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV TWA (ppm)	200 ppm (Cyclohexane; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
Polaium	Limit value (mg/m ³)	350 mg/m ³ (Cycloboxano: Bolgium: Timo woightod

Belgium

Limit value (mg/m³)

350 mg/m 3 (Cyclohexane; Belgium; Time-weighted average exposure limit 8 h)

cyclohexane (110-82-7)		
Belgium	Limit value (ppm)	100 ppm (Cyclohexane; Belgium; Time-weighted average exposure limit 8 h)
France	VLE (mg/m ³)	1300 mg/m³ (Cyclohexane; France; Short time value; VL: Valeur non réglementaire indicative)
France	VLE (ppm)	375 ppm (Cyclohexane; France; Short time value; VL: Valeur non réglementaire indicative)
France	VME (mg/m³)	700 mg/m ³ (Cyclohexane; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
France	VME (ppm)	200 ppm (Cyclohexane; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	100 ppm (Cyclohexane; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
Netherlands	Grenswaarde TGG 8H (mg/m³)	700 mg/m ³ (Cyclohexaan; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 8H (ppm)	200 ppm (Cyclohexaan; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 15MIN (mg/m³)	1400 mg/m³ (Cyclohexaan; Netherlands; Short time value; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 15MIN (ppm)	400 ppm (Cyclohexaan; Netherlands; Short time value; Public occupational exposure limit value)
United Kingdom	WEL TWA (mg/m³)	350 mg/m ³ Cyclohexane; United Kingdom; Time- weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL TWA (ppm)	100 ppm Cyclohexane; United Kingdom; Time- weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (mg/m ³)	1050 mg/m³ Cyclohexane; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (ppm)	300 ppm Cyclohexane; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
methylcyclohexane (108-87-	2)	
Belgium	Limit value (mg/m³)	1633 mg/m³ (Méthylcyclohexane; Belgium; Time- weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	400 ppm (Méthylcyclohexane; Belgium; Time-weighted average exposure limit 8 h)
France	VME (mg/m³)	1600 mg/m ³ (Méthylcyclohexane; France; Time- weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
France	VME (ppm)	400 ppm (Méthylcyclohexane; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	400 ppm (Methyl cyclohexane; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
methanol (67-56-1)	I	
EU	IOELV TWA (mg/m ³)	260 mg/m ³ (Methanol; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV TWA (ppm)	200 ppm (Methanol; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
Belgium	Limit value (mg/m³)	266 mg/m³ (Alcool méthylique; Belgium; Time- weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	200 ppm (Alcool méthylique; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Short time value (mg/m³)	333 mg/m³ (Alcool méthylique; Belgium; Short time value)
Belgium	Short time value (ppm)	250 ppm (Alcool méthylique; Belgium; Short time value)
France	VLE (mg/m ³)	1300 mg/m³ (Methanol; France; Short time value; VL: Valeur non réglementaire indicative)
France	VLE (ppm)	1000 ppm (Methanol; France; Short time value; VL: Valeur non réglementaire indicative)

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methanol (67-56-1)		
France	VME (mg/m³)	260 mg/m³ (Methanol; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
France	VME (ppm)	200 ppm (Methanol; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	200 ppm (Methanol; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	250 ppm (Methanol; USA; Short time value; TLV - Adopted Value)
Netherlands	Grenswaarde TGG 8H (mg/m³)	133 mg/m³ (Methanol; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 8H (ppm)	100 ppm (Methanol; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
United Kingdom	WEL TWA (mg/m³)	266 mg/m ³ Methanol; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL TWA (ppm)	200 ppm Methanol; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (mg/m ³)	333 mg/m ³ Methanol; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (ppm)	250 ppm Methanol; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)

8.2. Exposure controls

: Either local exhaust or general room ventilation is usually required.

- Appropriate engineering controls Personal protective equipment
- : Avoid all unnecessary exposure. Gloves. Protective clothing. Protective goggles. Safety

Wear chemically resistant protective gloves. Wear suitable gloves resistant to chemical

Wear chemically protective gloves, lab coat or apron to prevent prolonged or repeated skin

Where exposure through inhalation may occur from use, respiratory protection equipment is



Chemical goggles or safety glasses. Safety glasses.

Hand protection	
Eye protection	
Skin and body protection	

Respiratory protection

Other information

SECTION 9: Physical and chemical properties

2

1

:

penetration.

contact.

recommended.

9.1. Information on basic physical 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)	:	Highly flammable liquid and vapor		
Relative density	:	No data available		
Solubility	:	No data available		
Explosive properties	:	No data available		
Oxidizing properties	:	No data available		
Explosion limits	:	No data available		
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Do not eat, drink or smoke during use.

9.2. Other information				
No additional information available				
SECTION 10: Stability and reactivity				
10.1. Reactivity				
No additional information available				
10.2. Chemical stability				
Highly flammable liquid and vapor. May form flam	nmable/explosive vapor-air mixture.			
10.3. Possibility of hazardous reactions				
Not established.				
10.4. Conditions to avoid				
Direct sunlight. Extremely high or low temperatur	es. Open flame.			
10.5. Incompatible materials				
No additional information available				
10.6. Hazardous decomposition products				
May release flammable gases.				
SECTION 11: Toxicological informati	on			
11.1. Information on toxicological effects				
Acute toxicity	: Oral: Toxic if swallowed. Dermal: Toxic in contact with skin. Inhalation:dust,mist: Toxic if			
	inhaled.			
Cyclohexanes Mix				
ATE CLP (oral)	100.2 mg/kg body weight			
ATE CLP (dermal)	300.601 mg/kg body weight			
ATE CLP (dust, mist)	0.501 mg/l/4h			
cyclohexane (110-82-7)				
LD50 oral rat	> 12705 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value; >5000 mg/kg			
	bodyweight; Rat)			
LD50 dermal rabbit	> 2000 mg/kg body weight (Rabbit; Experimental value; Equivalent or similar to OECD 402)			
LC50 inhalation rat (mg/l)	> 19.07 mg/l/4h (Rat; Experimental value)			
LC50 inhalation rat (ppm)	> 5540 ppm/4h (Rat)			
methylcyclohexane (108-87-2)				
LD50 oral rat	> 5840 mg/kg body weight (Rat; OECD 401: Acute Oral Toxicity; Read-across)			
LD50 dermal rat	> 2800 mg/kg body weight (Rat; Read-across)			
LD50 dermal rabbit	86700 mg/kg (Rabbit; Literature study)			
methanol (67-56-1)				
LD50 oral rat	> 5000 mg/kg (Rat; BASF test; Literature study; 1187-2769 mg/kg bodyweight; Rat; Weight of			
	evidence)			
LD50 dermal rabbit	15800 mg/kg (Rabbit; Literature study)			
LC50 inhalation rat (mg/l)	85 mg/l/4h (Rat; Literature study)			
LC50 inhalation rat (ppm)	64000 ppm/4h (Rat; Literature study)			
ATE CLP (oral)	100 mg/kg body weight			
ATE CLP (dermal)	300 mg/kg body weight			
ATE CLP (gases)	700 ppmV/4h			
ATE CLP (vapors)	3 mg/l/4h			
ATE CLP (dust, mist)	0.5 mg/l/4h			
Skin corrosion/irritation : 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 : Not classified				
Based on available data, the classification criteria are not met				
	May cause cancer			

Reproductive toxicity	: Not classified
	Based on available data, the classification criteria are not met
Specific target organ toxicity – single exposure	: Causes damage to organs.
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
Potential Adverse human health effects and symptoms	: Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled.

SECTION 12	
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12.1. Toxicity

cyclohexane (110-82-7)		
LC50 fish 1	4.53 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Pimephales promelas; Flow- through system; Fresh water; Experimental value)	
EC50 Daphnia 1	0.9 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)	
Threshold limit algae 1	3.428 mg/l (EbC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Selenastrum capricornutum)	
Threshold limit algae 2	0.925 mg/l (NOEC; OECD 201: Alga, Growth Inhibition Test; 72 h; Selenastrum capricornutum)	
methylcyclohexane (108-87-2)		
LC50 fish 2	5.4 mg/l (LC50; 96 h; Salmo gairdneri; Semi-static system)	
Threshold limit algae 2	29 mg/l (ErC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Selenastrum capricornutum; Static system; Fresh water; Read-across)	
methanol (67-56-1)		
LC50 fish 1	15400 mg/l (LC50; EPA 660/3 - 75/009; 96 h; Lepomis macrochirus; Flow-through system; Fresh water; Experimental value)	
EC50 Daphnia 1	> 10000 mg/l (EC50; DIN 38412-11; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)	
LC50 fish 2	sh 2 10800 mg/l (LC50; 96 h; Salmo gairdneri)	

12.2. Persistence and degradability				
Cyclohexanes Mix				
Persistence and degradability	Not established.			
cyclohexane (110-82-7)				
Persistence and degradability	Readily biodegradable in water. Non degradable in the soil. Low potential for adsorption in soil.			
Biochemical oxygen demand (BOD)	0.22 g O ₂ /g substance			
ThOD	3.425 g O ₂ /g substance			
BOD (% of ThOD)	< 0.5 (Literature study)			
methylcyclohexane (108-87-2)				
Persistence and degradability	Not readily biodegradable in water. Low potential for adsorption in soil.			
methanol (67-56-1)				
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.			
Biochemical oxygen demand (BOD)				
Chemical oxygen demand (COD)	oxygen demand (COD) 1.42 g O ₂ /g substance			
ThOD	1.5 g O ₂ /g substance			
BOD (% of ThOD)	0.8 (Literature study)			
12.3. Bioaccumulative potential				
Cyclohexanes Mix				
Bioaccumulative potential	Not established.			
cyclohexane (110-82-7)				
BCF fish 2	31 - 129 (BCF; 8 weeks; Cyprinus carpio)			
Log Pow	3.44 (Experimental value; 25 °C)			
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).			
methylcyclohexane (108-87-2)				
BCF fish 1	95 - 321 (BCF; 8 weeks; Cyprinus carpio)			
Log Pow	3.88 (Literature)			
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methylcyclohexane (108-87-2)		
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	
methanol (67-56-1)		
BCF fish 1	< 10 (BCF; 72 h; Leuciscus idus)	
Log Pow	-0.77 (Experimental value; Other)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	
12.4. Mobility in soil		
cyclohexane (110-82-7)		
Surface tension	0.025 N/m (20 °C)	
Log Koc	log Koc,Other; 2.89; QSAR; Koc; Other; 770; QSAR	
methylcyclohexane (108-87-2)		
Log Koc	log Koc,SRC PCKOCWIN v2.0; 2.369; Calculated value	
methanol (67-56-1)		
Surface tension	0.023 N/m (20 °C)	
Log Koc	Koc,PCKOCWIN v1.66; 1; Calculated value	
12.5. Results of PBT and vPvB assessme		
No additional information available		
12.6. Other adverse effects		
Additional information	: Avoid release to the environment	
SECTION 13: Disposal consideration	S	
I3.1. Waste treatment methods		
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.	
Additional information	: Handle empty containers with care because residual vapors are flammable.	
Ecology - waste materials	: Avoid release to the environment. Hazardous waste due to toxicity.	
SECTION 14: Transport information	· · · · · · · · · · · · · · · · · · ·	
14.1. UN number JN-No. (ADR)	: 1992	
UN-No. (IATA)	: 1992	
UN-No. (IMDG)	: 1992	
UN-No. (ADN)	: 1992	
14.2. UN proper shipping name		
Proper Shipping Name (ADR)	: FLAMMABLE LIQUID, TOXIC, N.O.S.	
Proper Shipping Name (IATA)	: Flammable liquid, toxic, n.o.s.	
Proper Shipping Name (IMDG)	: FLAMMABLE LIQUID, TOXIC, N.O.S.	
Proper Shipping Name (ADN)	: FLAMMABLE LIQUID, TOXIC, N.O.S.	
Transport document description (ADR)	: UN 1992 FLAMMABLE LIQUID, TOXIC, N.O.S., 3 (6.1), II, (D/E)	
14.3. Packing group		
· · · · · · · · · · · · · · · · · · ·		
Class (ADR)	: 3	
Classification code (ADR)	: FT1	
Class (IATA)	: 3	
Class (IMDG)	: 3	
Class (ADN)	: 3	
Classification code (ADN)	: FT1	
Subsidiary risks (ADR)	: 6.1	
Subsidiary risks (IMDG)		
Subsidiary risks (IMDG) Hazard labels (ADR)	: 3, 6.1	

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Hazard labels (IATA)	: 3, 6.1
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	3 6
Hazard labels (IMDG)	: 3, 6.1
	3
Hazard labels (ADN)	: 3, 6.1
	6
14.4. Packing group	
Packing group (ADR)	: 11
Packing group (IATA)	
Packing group (IMDG) Packing group (ADN)	: II : II
14.5. Environmental hazards	· · · ·
Other information	: No supplementary information available.
14.6. Special precautions for user	
14.6.1. Overland transport	
Hazard identification number (Kemler No.)	: 336
Classification code (ADR)	: FT1
Orange plates	226
	336
	1002
	1992
Special provision (ADR)	: 274
Transport category (ADR)	: 2
Tunnel restriction code (ADR)	: D/E
Limited quantities (ADR)	: 11
Excepted quantities (ADR)	: E2
14.6.2. Transport by sea	
Special provision (IMDG)	: 274
Limited quantities (IMDG)	: 1L
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T7
Tank special provisions (IMDG)	: TP2, TP13
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-D
Stowage category (IMDG)	: В
Properties and observations (IMDG)	: Flammable toxic liquid which is not specified by name in this class or, on account of its
· · ·	characteristics, in some other class. Toxic if swallowed, by skin contact or by inhalation.
14.6.3. Air transport	
CAO packing instructions (IATA)	: 364
CAO max net quantity (IATA)	: 60L
PCA packing instructions (IATA)	: 352
PCA Limited quantities (IATA)	: Y341
PCA limited quantity max net quantity (IATA)	: 1L
PCA max net quantity (IATA)	: 1L
PCA Excepted quantities (IATA)	: E2

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Special provision (IATA)	:	A3
ERG code (IATA)	:	3HP
14.6.4. Inland waterway transport		
Special provision (ADN)	:	274, 802
Limited quantities (ADN)	:	1 L
Excepted quantities (ADN)	:	E2
Carriage permitted (ADN)	:	Т
Equipment required (ADN)	:	PP, EP, EX, TOX, A
Ventilation (ADN)	:	VE01, VE02
Number of blue cones/lights (ADN)	:	2
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

Germany

Water hazard class (WGK)

: 1 - slightly 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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