

EPOXID - EPOXY THINNER

SECTION 1: SUBSTANCE/MIXTURE IDENTIFICATION AND MANUFACTURER/SUPPLIER IDENTIFICATION

1.1. Product identification

EPOXID - EPOXY THINNER

UFI: 9NV0-X06P-P00Q-T4D9

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

Professional and consumer use – for thinning film-forming factors of paints and coats. *

Uses advised against: other than those mentioned above. *

1.3 Data of the safety data sheet supplier

Przedsiębiorstwo RANAL Sp. z o.o.

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1.4. Emergency telephone

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SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

According to the Regulation (EC) no 1272/2018.

Physical and chemical hazards:

Flam Liq 3 Flammable liquids, cat. 3 H226 Flammable liquid and vapour. *

Health hazards:

Asp. Tox. 1 Aspiration hazard, cat. 1. H304 May be fatal if swallowed and enters airways.*

Skin Irrit. 2 Skin irritation, cat. 2, H315 Causes skin irritation.*

Eye Dam. 1 * Serious eye damage, cat. 1 H318 Causes serious eye damage. *

STOT SE 3 Specific target organ toxicity – single exposure, cat. 3. H335 May cause respiratory irritation*. H336 May cause drowsiness or dizziness*.

STOT RE 2 Specific target organ toxicity – repeated exposure, cat. 2, H373 May cause damage to organs through prolonged or repeated exposure*. (liver, kidneys, hearing organs*)

Acute Tox. 4 (Dermal) Acute toxicity - (skin), cat. 4 H312 Harmful in contact with skin*.

Acute Tox. 4 (Inhalation) Acute toxicity - (inhalation), cat. 4 H332 Harmful if inhaled*.

Environmental hazards*:

Aquatic Chronic 2 * Hazardous to the aquatic environment – chronic hazard, cat. 2 H411 Toxic to aquatic life with long-lasting effects*.

2.2. Label elements

Pictograms:



Signal word: **DANGER.**

Contains:

Reaction mass of ethylbenzene and m-xylene and p-xylene, cyclohexanone, n-butanol, hydrocarbons, C9, aromatic *

Hazard statements (CLP):

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H318* Causes serious eye damage.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long-lasting effects.

Precautionary statements (CLP):

P210 Keep away from sources of heat/sparks/open flames/hot surfaces. No smoking.

P271 * Use only outdoors or in a well-ventilated area.

P273 * Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P331* DO NOT induce vomiting.

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P305+P351+P338* IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P403* Store in a well-ventilated place.
P233 Keep container tightly closed.
P501a* Dispose of contents/container to a licensed waste collector.

2.3. Other hazards

The Product does not meet the criteria of PBT/vPvB in accordance with Annex XIII of the REACH Regulation. *

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable.

3.2. Mixtures

Chemical nature: mixture of organic compounds.

Hazardous components:		
CAS No. --- EC No. 905-562-9 Registration no 01-2119555267-33-XXXX	Reaction mass of ethylbenzene and m-xylene and p-xylene*	40-60%
CAS No. --- EC No. 905-588-0 Registration no 01-2119539452-40-XXXX	Reaction mass of ethylbenzene and xylene*	or
CAS No. 1330-20-7 EC No. 215-535-7 Index no 601-022-00- 9 Registration no 01-2119488216-32-XXXX	Xylene- mixture of isomers* Flam. Liq. 3, H226, Asp. Tox. 1, H304, Acute Tox. 4, H312, Acute Tox. 4, H332, Skin Irrit. 2, H315, Eye Irrit. 2, H319, STOT SE 3, H335, STOT RE 2, H373, (liver) (kidneys) (hearing organs)	or
CAS No. 108-94-1 EC No. 203-631-1 Index no 606-010-00- 7 Registration no 01-2119453616-35-XXXX	Cyclohexanone* Flam. Liq. 3, H226, Acute Tox. 4, H302, Acute Tox. 4, H312, Acute Tox. 4, H332, Skin Irrit. 2, H315, Eye Dam. 1, H318	<10%
CAS No. 71-36-3 EC No. 200-751-6 Index no 603-004-00- 6 Registration no 01-2119484630-38-XXXX	N-butanol* Flam. Liq. 3, H226, Acute Tox. 4, H302, Skin Irrit. 2, H315, Eye Dam. 1, H318, STOT SE 3, H335, STOT SE 3, H336	<5%
CAS No. --- EC No. 918-668-5 Index no not applicable Registration no 01-2119455851-35-XXXX	Hydrocarbons, C9, aromatics* Flam. Liq. 3, H226, Asp. Tox. 1, H304 , STOT SE 3, H335 , STOT SE 3, H336, Aquatic Chronic 2, H411	<30%
CAS No. 108-65-6 EC No. 203-603-9 Index no 607-195-00- 7 Registration no 01-2119475791-29-XXXX	1-Methoxy-2-propyl acetate* Flam. Liq. 3, H226, STOT SE 3, H336	<20%

For the full text of hazard statements refer to section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

First aid – general measures: Observe the principles of personal safety and avoid potential contamination with the substance. Remove the injured person from the endangered area. Seek medical attention - if possible, show the safety data sheet or label of the hazardous substance.

First aid – after inhalation: Move the injured person to fresh air. Provide warmth and peace. Place the injured person in the first aid position. In case of breathing difficulties qualified personnel should administer oxygen. In case of respiratory arrest perform artificial respiration. Immediately call for medical help.*

First aid – after skin contact: Take off contaminated clothes. Immediately wash with soap and plenty of water. If symptoms of irritation occur, consult a doctor.*

First aid– after contact with eyes: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Protect the uninjured eye. Continue rinsing. Keep your eyes wide open while rinsing. If any disturbing symptoms occur, seek medical help. Provide an ophthalmological consultation.*

First aid- after ingestion: Immediately call for medical help. Do NOT induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Rinse mouth with water. Give water to drink. Do not give milk or alcohol. Never give anything by mouth to an unconscious person.*

4.2 Most important symptoms both acute and delayed

Effects and symptoms: No data available.*

4.3 Indications of any immediate medical attention and special treatment needed

First aiders should pay attention to their own personal protection and wear protective clothing. Symptomatic treatment. Symptoms may appear delayed. If aspirated, it may cause chemical pneumonia.*

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SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Appropriate extinguishing media: water spray, foam, water mist, extinguishing powder, carbon dioxide (CO₂).

Extinguishing media that cannot be used for safety reasons*: strong water jet - risk of spreading fire. Do not use foaming agents and water at the same time.

5.2. Special hazards arising from the substance or mixture

Vapours may form explosive mixtures with air at temperatures above the flash point. Product vapours are heavier than air and may spread and accumulate above the ground. Vapours may pose a risk of ignition and flame back to the source of the leak. Closed containers exposed to fire or high temperature may explode as a result of pressure build-up inside them.*

During a fire, the following may be released: toxic gases/vapours; carbon monoxide; carbon dioxide (CO₂).*

5.3. Advice for fire fighters

Cool containers exposed to fire or high temperature by spraying water from a safe distance. If possible, remove containers from the exposure area. Do not allow extinguishing water to enter the sewage system, surface water or groundwater. Prevent fire-fighting water from entering surface water or groundwater. Fire residues and contaminated fire-fighting water must be disposed of in accordance with regulations.*

Use self-contained breathing apparatus and full protective clothing.*

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency measures

Notify the surroundings about the failure. Evacuate personnel to a safe place. Prevent unauthorized persons from entering the danger zone. Assign persons trained and equipped with appropriate protective equipment to carry out work related to eliminating the effects of the failure. Avoid contamination of eyes, skin and clothing. Avoid breathing vapour / mist / spray. Provide adequate ventilation. Use personal protective equipment. Remove all sources of ignition. Do not use sparking tools.*

6.2. Environmental precautions

Prevent spreading or entering sewage systems, watercourses and soil. In case of environmental contamination, notify the relevant services.*

6.3. Methods and materials for containment and cleaning up

Large spills should be collected mechanically (pumped out) for disposal. Collect small spills with non-combustible absorbent material. Collect and transfer to properly labelled containers. Forward for removal/liquidation. Use EX pumps/equipment*
 After cleaning, rinse the residue with water. Collect contaminated water and dispose of as dangerous waste.*

6.4. Reference to other sections

Personal protection measures – see section 8 of the Sheet. Disposal considerations – see section 13 of the Sheet.

SECTION 7: HANDLING AND STORAGE OF SUBSTANCES AND MIXTURES

7.1. Precautions for safe handling

Avoid contamination of eyes, skin and clothing. Do not breathe vapour / mist / spray. Provide adequate ventilation. Use personal protective equipment. Eliminate ignition sources. Do not use sparking tools. Take precautions against electrostatic discharge. Use proper grounding procedures. Use EX equipment. Open containers slowly having pressure under control. Empty containers may have product residues inside and should be handled with care. * Uncleaned packages / tanks must not be: cut, drilled, grinded, welded and such activities must not be performed in their vicinity. *

Use in accordance with occupational health and safety rules. Do not eat or drink at the site where the product is used. Wash hands before each break and at the end of work. Take off and wash contaminated clothing before using it again. *

7.2. Conditions for safe storage, including any incompatibilities

Store in a warehouse with explosion-proof lighting.
 Store in properly labelled containers. Keep container tightly closed in a dry, cool and well-ventilated area. Protect from high temperature. Protect from direct sunlight. Keep away from heat and ignition sources. Store away from incompatible materials (see section 10). Open containers must be resealed and stored upright to avoid leaks. Containers should be grounded. *

7.3. Special end use (s)

See section 1.2. *

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION MEASURES

8.1. Control parameters

DNEL values*:

Xylene- mixture of isomers	for workers	inhalation	acute exposure	289 mg/m ³
	for workers	contact with skin	long-term exposure	180 mg/kg bw/day
	for workers	inhalation	long-term exposure	77 mg/m ³
	for consumers	inhalation	acute exposure	174 mg/m ³
	for consumers	contact with skin	long-term exposure	108 mg/kg bw/day
	for consumers	inhalation	long-term exposure	14.8 mg/m ³
	for consumers	ingestion	long-term exposure	1.6 mg/kg bw/day

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Cyclohexanone*	for workers	contact with skin	acute exposure	systemic effect	100 mg/kg bw/day
	for workers	inhalation	acute exposure	systemic effect	100 mg/m ³
	for workers	inhalation	acute exposure	local effects	100 mg/m ³
	for workers	contact with skin	acute exposure	systemic effect	10 mg/kg bw/day
	for workers	inhalation	acute exposure	systemic effect	100 mg/m ³
	for workers	inhalation	acute exposure	local effects	80 mg/m ³
	for consumers	contact with skin	acute exposure	systemic effect	30 mg/kg bw/day
	for consumers	inhalation	acute exposure	systemic effect	50 mg/m ³
	for consumers	ingestion	acute exposure	systemic effect	10 mg/kg bw/day
	for consumers	inhalation	acute exposure	local effects	50 mg/m ³
	for consumers	contact with skin	long-term exposure	systemic effect	20 mg/kg bw/day
	for consumers	ingestion	long-term exposure	systemic effect	5 mg/kg bw/day
N-butanol	for workers	inhalation	long-term exposure	local effects	20 mg/m ³
	for workers	inhalation	long-term exposure	systemic effect	310 mg/m ³
	for consumers	inhalation	long-term exposure	systemic effect	55.357 mg/m ³
	for consumers	ingestion	long-term exposure	systemic effect	1.5625 mg/kg
	for consumers	inhalation	long-term exposure	local effects	155 mg/m ³
	for consumers	contact with skin	long-term exposure	systemic effect	3.125 mg/kg
Hydrocarbons, C9, aromatics	for workers	contact with skin	long-term exposure	systemic effect	25 mg/kg bw/day
	for workers	inhalation	long-term exposure	systemic effect	150 mg/m ³
	for consumers	inhalation	long-term exposure	systemic effect	32 mg/m ³
	for consumers	contact with skin	long-term exposure	systemic effect	11 mg/kg
1-Methoxy-2-propyl acetate	for workers	inhalation	acute exposure	local effects	550 mg/m ³
	for workers	Skin:	long-term exposure	systemic effect	796 mg/kg bw/day
	for workers	inhalation	long-term exposure	systemic effect	275 mg/m ³
	for consumers	Skin:	long-term exposure	systemic effect	320 mg/kg bw/day
	for consumers	inhalation	long-term exposure	systemic effect	33 mg/m ³
	for consumers	ingestion	long-term exposure	systemic effect	36 mg/kg bw/day
for consumers	inhalation	long-term exposure	local effects	33 mg/m ³	

PNEC values*:

Xylene- mixture of isomers	Fresh water	0.327 mg/l
	sea water	0.327 mg/l
	Sediment (fresh water)	12.46 mg/kg
	Sediment (sea water)	12.46 mg/kg
	Soil	2.31 mg/kg
	sewage treatment plant (STP)	6.58 mg/l
Cyclohexanone	Fresh water	0.0329 mg/l
	sea water	0.00329 mg/l
	intermittent release	0.329 mg/l
	Sediment (fresh water)	0.0951 mg/kg
	Soil	0.0143 mg/kg
	sewage treatment plant (STP)	10 mg/l
N-butanol	Fresh water	0.082 mg/l
	sea water	0.0082 mg/l
	intermittent release	2.25 mg/l
	sewage treatment plant (STP)	2,476 mg/l
	Sediment (fresh water)	0.324 mg/kg
	Sediment (sea water)	0.0324 mg/kg
1-Methoxy-2-propyl acetate	Soil	0.0166 mg/kg
	Fresh water	0.635 mg/l
	sea water	0.064 mg/l
	intermittent release	6.35 mg/l
	sewage treatment plant (STP)	100 mg/l
	Sediment (fresh water)	3.29 mg/kg
Sediment (sea water)	0.329 mg/kg	
Soil	0.29 mg/kg	

Maximum permissible concentrations*:

Xylene- mixture of isomers	the substance with notation "skin"	MPC	100 mg/m ³
		MPIC	200 mg/m ³
Ethylbenzene	the substance with notation "skin"	MPC	200 mg/m ³
		MPIC	400 mg/m ³
Cyclohexanone	the substance with notation "skin"	MPC	40 mg/m ³
		MPIC	80 mg/m ³
N-butanol	the substance with notation "skin"	MPC	50 mg/m ³
		MPIC	150 mg/m ³
1-Methoxy-2-propyl acetate	the substance with notation "skin"	MPC	260 mg/m ³
		MPIC	520 mg/m ³

MPC according to applicable regulations.*

Labelling the substance with the notation "skin" means that the absorption of the substance through the skin may be just as important as for inhalation exposure.*

Acceptable biological values*:

No data.

Recommended monitoring procedures*:

According to applicable regulations.

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8.2. Exposure control

Technical control measures:

General and local exhaust ventilation are recommended to maintain exposure to vapours below recommended limits. Explosion-proof ventilation. Explosion-proof electrical installation. Provide eyewash facilities and safety showers near the workstation. *

General recommendations*:

Avoid contamination of eyes, skin and clothing. Avoid breathing vapour /gases/ mist / spray. Do not eat, drink or smoke when using the product. Wash hands before meals and immediately after using the product. Take off and wash contaminated clothing before using it again.

Personal protection measures:

Eye or face protection: Safety glasses Tightly sealed goggles. If there is a risk of splash wear face shield. *

Hands and skin protection: Protective gloves according to EN 374.*

Body protection: Protective clothing made of dense fabric. Protective footwear.

Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation. Breathing apparatus with a filter. In case of intensive or long-term exposure, use self-contained breathing apparatus. *

Other protective equipment*: Protective clothing. Protective footwear.

Environmental control:

Avoid release to the environment.*

General recommendations concerning safety and hygiene:

Warning: The personal protective equipment used should meet the requirements of applicable law.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties*

Appearance:	clear liquid
Odour:	no data*
Melting /freezing point:	no data*
Boiling point	no data*
Initial boiling point and boiling range:	no data*
Flammability of materials*:	flammable*
Top/bottom flammability limit or top/bottom explosion limit:	2.2 – 11.7 % vol. *
Flash point:	30°C *
Auto ignition point:	480°C *
Breakdown point:	No data.
pH:	no data*
Kinematic viscosity*:	no data*
Solubility:	partially soluble in water*
n-octanol/water partition coefficient (Log Pow):	No data.
Vapour pressure:	no data*
Density or relative density*:	0.830-0.930 g/m ³ at 20°C 0.835-0.935 g/m ³ at 15°C
Relative Vapour density*:	no data*
Particles characteristics:	Not applicable.

9.2. Other information

Information with regard to physical hazard classes*: No data.

Other safety features*: No data.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No data available.*

10.2. Chemical stability

Stable under normal conditions.

Stable when stored under recommended conditions.*

10.3. Possibility of hazardous reactions

Vapours can form an explosive mixture with air. Contact with incompatible materials may cause violent or explosive reactions. *

10.4. Conditions to be avoided

Ignition sources. Heat, fire and sparks. High temperature and direct sunlight. Humidity. *

10.5. Incompatible materials

Strong oxidants. Strong acids and bases.*

10.6. Hazardous decomposition products

Fire may produce such hazardous decomposition products as: toxic gases/vapours. Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).*

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SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on the hazard classes defined in Regulation (EC) No 1272/2008*

Acute toxicity through ingestion*:

Xylene- mixture of isomers	ATE	>2000 mg/kg					Calculation method
Cyclohexanone	LD50	1890 mg/kg	rat				
n-butanol	LD50	2292 mg/kg	rat	female		OECD 401 guidelines	
Hydrocarbons, C9, aromatics	LD50	> 2000 - 5000 mg/kg	rat	male and female			The information provided is based on data obtained for similar substances
1-Methoxy-2-propyl acetate	LD50	6190 mg/kg	rat				
Product ready to use	Estimated acute toxicity ATE mix	app. 8 948 mg/kg					Classification criteria are not met

Acute toxicity through skin*:

Xylene- mixture of isomers	ATE	1100 mg/kg					Calculation method
Cyclohexanone	LC50	1100 mg/kg	Rabbit				
n-butanol	LD50	3430 mg/kg	Rabbit			OECD 402 guidelines	
Hydrocarbons,C9,aromatics	LD50	>2000 mg/kg	Rabbit	male and female		OECD 402 guidelines	
1-Methoxy-2-propyl acetate	LD50	>2000 mg/kg	rat				
Product ready to use	Estimated acute toxicity ATE mix	2000 mg/kg					

Acute toxicity through airways*:

Xylene- mixture of isomers	ATE	11 mg/l					Calculation method
Cyclohexanone	LC50	11 mg/l		rat			
n-butanol	LC50	> 17.76 mg/l	4 h	rat	male/ female	OECD 403 guidelines	
Hydrocarbons,C9,aromatics	LC50	> 2-10 mg/l	4 h	rat	male and female	OECD 403 guidelines	
Product ready to use	Estimated acute toxicity ATE mix	20 mg/l					

Acute toxicity by other routes of exposure*: No data.

Skin corrosion/irritation: Causes skin irritation (based on information on components)*.

Serious eye damage/eye irritation: Causes serious eye damage, based on information on components.*

Respiratory irritation*: Does not cause sensitization, based on information on components*.

Skin sensitization: Based on available data the classification criteria are not met.

Mutagenic effect on germ cells: Based on available data the classification criteria are not met.

Carcinogenic effect: Based on available data the classification criteria are not met.

Harmful effect on reproduction: Based on available data the classification criteria are not met.

Specific target organ toxicity – single exposure: May cause drowsiness or dizziness. May cause respiratory irritation (based on information on components). *

Specific target organ toxicity – repeated exposure: May cause damage to organs through prolonged or repeated exposure. Affected organs: liver, kidneys, hearing. (based on information on components). *

Aspiration hazard: May be fatal if swallowed and enters airways, based on information on components.

Information on possible routes of exposure*: No data.

Symptoms related to the physical, chemical and toxicological characteristics*: No data.

Delayed and immediate effects and chronic effects from short and long-term exposure*: No data.

11.2. Information on other hazards*

No data.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Xylene- mixture of isomers*	Acute toxicity for aquatic invertebrates	EC50	> 3.4 mg/l	48 h	Ceriodaphnia dubia	OECD 202 guidelines	
	Acute toxicity for fish	LC50	2.6 mg/l	96 h	Oncorhynchus mykiss	OECD 203 guidelines	
	Acute toxicity for algae	EC50	2.2 mg/l	73 h	Pseudokirchneriella subcapitata	OECD 201 guidelines	
	Acute toxicity for bacteria	EC50	> 157 mg/l	3 h	activated sludge	OECD 209 guidelines	
Cyclohexanone*	Acute toxicity for fish	LC50	527-732 mg/m ³	96 h	Pimephales promelas		
	Acute toxicity for fish	LC50	536-752 mg/m ³	48 h	Leuciscus idus		
	Acute toxicity for aquatic invertebrates	EC50	820 mg/dm ³	24 h			
	Acute toxicity for aquatic invertebrates	LC50	800 mg/dm ³	24 h	Daphnia magna		
	Chronic toxicity for aquatic plants	EC50	32.9 mg/dm ³	72 h			
	Chronic toxicity for aquatic plants	EC10	3.56 mg/dm ³	72 h	Chlamydomon as reinhardii		
	Toxicity for algae	EC3	370 mg/dm ³	8 days	Scenedesmus quadricauda		

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	Toxicity to microorganisms	EC50	> 1,000 mg/l	30 min			
n-butanol*	Toxicity to fish	LC50	1,376 mg/l	96 h	Pimephales promelas	OECD 203 guidelines	static test
	Toxicity to aquatic invertebrates	EC50	1,328 mg/l	48 h	Daphnia magna	OECD 202 guidelines	static test
	toxicity for aquatic plants	EC50	225 mg/l	96 h	Pseudokirchneriella subcapitata	OECD 201 guidelines	static test Growth rate
	toxicity for aquatic plants	NOEC	129 mg/l	96 h	Pseudokirchneriella subcapitata	OECD 201 guidelines	static test Growth rate
	Toxicity to microorganisms	EC10	2,476 mg/l	17 h	Pseudomonas putida	DIN 38412	
	Chronic toxicity for aquatic invertebrates	NOEC	4.1 mg/l	21 days	Daphnia magna	OECD 211 guidelines	static test
Hydrocarbons, C9, aromatics*	Acute toxicity for fish	LC50	9.2 mg/l	96 h	Oncorhynchus mykiss	OECD 203 guidelines	
	Toxicity to crustaceans	EL50	3.2 mg/l	48 h	Daphnia magna	OECD 202 guidelines	
	Acute toxicity for aquatic plants	ErL50	2.9 mg/l	72 h	Pseudokirchneriella subcapitata	OECD 201 guidelines	
	acute toxicity for microorganisms	NOEC	> 99 mg/l	0.16 h	activated sludge	OECD 209 guidelines	
1-Methoxy-2-propyl acetate*	Acute toxicity for fish	LC50	100-180 mg/l	96 h		OECD 203 guidelines	
	toxicity to daphnia and other aquatic invertebrates	EC50	> 373 mg/l	48 h		OECD 202 guidelines	
	Acute toxicity for algae	EC50	> 1,000 mg/l	96 h		OECD 201 guidelines	

12.2. Persistence and degradability

Based on the data of the components of the mixture, the product is probably rapidly biodegradable.*

12.3. Bioaccumulative potential

No data. *

12.4. Mobility in soil

No data. *

12.5. Results of PBT and vPvB assessment

The Substance does not meet the criteria of PBT/vPvB in accordance with Annex XIII of the REACH Regulation.

12.6. Endocrine disrupting properties*

No data. *

12.7. Other hazardous effects

No data.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste code: 07 01 04

Other organic solvents, washing liquids and mother liquors. Do not discharge the product into the sewage system. Prevent contamination of surface and ground waters. Consider reuse. The waste product should be recovered or disposed of in authorized waste treatment / neutralization plants, in accordance with applicable regulations. Soaked clothing, papers or other organic materials pose a fire hazard and should be collected and disposed of in a controlled manner. The waste product should be recovered or disposed of in authorized waste treatment / neutralization plants, in accordance with applicable regulations. Recycling / disposal of packaging waste should be carried out in accordance with applicable regulations.

ATTENTION: Only completely emptied containers may be recycled! Use the services of companies with appropriate permissions.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number or ID number*

1993 *

14.2. UN proper shipping name

Flammable liquid N.O.S. Contains: Hydrocarbons, C9, aromatics, Xylene - mixture of isomers).*

14.3 Transport hazard class (-es)

3

Classification code: F1

Hazard identification no*: 30

Tunnel restriction code*: D/E

Warning label 3



14.4 Packaging group

III

14.5. Environmental hazards

The product is not environmentally hazardous according to the criteria contained in UN model regulations.*

14.6 Special precautions for users

None.

14.7. Sea transport in bulk in accordance with IMO instruments*

No data available.*

SECTION 15: REGULATORY INFORMATION

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

- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 as amended Regulation (WE) no 1907/2006 of the European Parliament and of the Council of 18 December 2006 on REACH as amended.*
- Agreement concerning the International Carriage of Dangerous Goods by Road (ADR).*

15.2 Chemical safety assessment

Chemical safety assessment has been carried out for components of the mixture.*

SECTION 16: OTHER INFORMATION

Explanation of abbreviations and acronyms used in the MSDS*:

Expl. - Explosives.

Flam. Gas - Flammable gas.

Flam. Aerosol - Flammable aerosol.

Ox. Gas - Oxidizing gas.

Press. Gas - Pressurized gas.

Flam. Liq. - Flammable liquids.

Flam. Sol. - Flammable solid.

Self-react. - Self-reactive substances or mixtures.

Pyr. Liq. - Pyrophoric liquids.

Pyr. Sol. - Pyrophoric solids.

Self-heat. - Self-heating substance or mixture.

Water-react. - Substances or mixtures which emit flammable gases in contact with water.

Ox. Liq. - Oxidizing liquids.

Ox. Sol. - Oxidizing solids.

Org. Perox. - Organic peroxides, type A

Met. Corr. - Substance or mixture corrosive to metals.

Acute Tox. - Acute toxicity.

Skin Corr. - Skin corrosion.

Skin Irrit. - Skin irritation.

Resp. Sens. - Respiratory irritation.

Skin Sens. - Skin sensitization.

Muta. - Mutagenic effect on germ cells, cat. 1A.

Carc. - Carcinogenicity.

Repr. - Reproduction toxicity, cat. 1A.

STOT SE - Specific target organ toxicity.

STOT RE - Specific target organ toxicity - repeated exposure, cat. 1

Asp. Tox. - Aspiration hazard.

Aquatic Acute - Hazardous to the aquatic environment – acute hazard, cat.

Aquatic Chronic - Hazardous to the aquatic environment – chronic hazard.

Ozone - Posing a threat to the ozone layer.

Lact. - Effects on lactation or harmful effects on breastfed children.

MPC - Maximum permissible concentrations.

MPIC - Maximum Permissible Instantaneous Concentration.

MPCC - Maximum Permissible Ceiling Concentration.

vPvB - (substance, which is) very Persistent and very Bio-accumulative.

PBT - (substance) Persistent, Bio-accumulative and toxic.

PNEC - Predicted no effect concentration.

DNEL - Derived no effect level of Concentration.

LD50 - Dose at which death of 50% of test animals is observed.

LC50 - Concentration at which death of 50% of test animals is observed.

LOEC - The lowest concentration that produces an observable effect.

NOEL - The highest concentration of a substance at which no effects are observed.

NOEC - Maximum Concentration at which no effects are observed

ECX - Concentration at which an X % changes e.g. decrease in growth or growth rate is observed.

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.

RID - Regulations for the international carriage of dangerous goods by rail.

IMDG - International Marine Code of Dangerous Goods.

EPOXID - EPOXY THINNER

ICAO/ IATA - International Air Transport Association.

UVCB - Substances of unknown or variable composition, complex reaction products or biological materials.

List of phrases indicating the type of hazard and conditions of safe use*:

(organs of hearing) (kidneys) (liver)

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long-lasting effects.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+ P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician/...

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician/...

P331 DO NOT induce vomiting.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P501a Dispose of contents/container to a licensed waste collector.

Other information*:

Mixture The manufacturer/importer has confirmed the compliance of the substance/substances in the product with REACH (Regulation (EC) 1907/2006).

The data contained in the safety data sheet are based on our current knowledge and experience and describe the product in terms of safety requirements. These data cannot under any circumstances be considered as a description of the quality of the goods (product specification).

The information contained in the safety data sheet applies to the product in the form in which it is delivered.

The conditions of use and suitability of the product for specific applications are under the user's control. It is the user's responsibility to use the product safely.

Persons handling and using the product should be duly informed and receive appropriate instructions on how to handle the product.

A calculation method was used for classification in terms of acute toxicity hazards.

Training:

Persons involved in the trade of the product should be trained in handling, safety and hygiene. Workers / vehicle drivers should undergo training and obtain an appropriate certificate in accordance with the requirements of ADR regulations.*

Changes in the Sheet compared to the previous version:

Update of sections:

9: rewording of sub-section 9.1: Information on basic physical and chemical properties

11: rewording of sub-section 11.1: Information on the hazard classes defined in Regulation (EC) No 1272/2008

12: new subsection 12.6: Endocrine disrupting properties.

14: rewording of sub-section 14.1: UN number or ID number; rewording of sub-section 14.7: Sea transport in bulk in accordance with IMO instruments.

15: added subsections 15.1.1, 15.1.2.

Changes in the content of sections: 1.1, 1.2, 2.1, 2.2, 2.3, 3.2, 4.1, 4.2, 4.3, 5.1, 5.2, 5.3, 6.1, 6.2, 6.3, 7.1, 7.2, 7.3, 8.1, 8.2, 9.1, 9.2, 10.1, 10.2, 10.3, 10.4, 10.5, 10.6, 11.1, 11.2, 12.1, 12.2, 12.3, 12.4, 12.6, 13.1, 14.1, 14.2, 14.3, 14.5, 14.7, 15.1, 15.2, 16.

General update.

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