

Safety Data Sheet BINDER ACRYLIC DTM GLOSS

Safety Data Sheet dated 26/1/2018, version 5

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Mixture identification:

Trade name: BINDER ACRYLIC DTM GLOSS

Trade code: 6B.1.K1

Product type and use: industrial varnishing

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

Recommended use:

industrial painting

SU3 Industrial uses: Uses of substances as such or in preparations* at industrial sites

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

PC9a Coatings and paints, thinners, paint removers

Uses advised against:

SU21 Consumer uses: Private households (= general public = consumers)

1.3. Details of the supplier of the safety data sheet

Company:

LUSID TECHNOLOGIES, 4725 S CAMP KEARNS ROAD, KEARNS, UT 84118

(801) 699-9126

Competent person responsible for the safety data sheet:

info@lusid.biz

1.4. Emergency telephone number

info@lusid.biz

Emergency US – 1-800-535-5053 Outside US - +1-352-323-3500 InfoTrac Contract # 89244

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

⚠ Warning, Flam. Liq. 3, Flammable liquid and vapour.

⚠ Warning, Skin Irrit. 2, Causes skin irritation.

⚠ Warning, Eye Irrit. 2, Causes serious eye irritation.

⚠ Warning, Skin Sens. 1, May cause an allergic skin reaction.

⚠ Warning, STOT RE 2, May cause damage to organs through prolonged or repeated exposure.

Aquatic Chronic 3, Harmful to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



Warning

Hazard statements:

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

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

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

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

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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

P370+P378 In case of fire, use a dry powder fire extinguisher to extinguish.

P403+P235 Store in a well-ventilated place. Keep cool.

Special Provisions:

None

Contains

Reaction products of polymeric fatty acids and alcohols ethoxylated with diethylenetriamine and 2,5-Furandione: May produce an allergic reaction.

2,3-epoxypropyl neodecanoate: May produce an allergic reaction.

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
>= 10% - < 12.5%	2-methoxy-1-methylethyl acetate	Index number: 607-195-00-7 CAS: 108-65-6 EC: 203-603-9 REACH No.: 01-2119475791-29	⚠ 2.6/3 Flam. Liq. 3 H226
>= 10% - < 12.5%	xylene [4]	Index number: 601-022-00-9 CAS: 1330-20-7 EC: 215-535-7 REACH No.: 01-2119488216-32	⚠ 2.6/3 Flam. Liq. 3 H226 ⚠ 3.1/4/Inhal Acute Tox. 4 H332 ⚠ 3.1/4/Dermal Acute Tox. 4 H312 ⚠ 3.3/2 Eye Irrit. 2 H319 ⚠ 3.8/3 STOT SE 3 H335 ⚠ 3.2/2 Skin Irrit. 2 H315 ⚠ 3.9/2 STOT RE 2 H373 ⚠ 3.10/1 Asp. Tox. 1 H304
>= 7% - < 10%	HYDROCARBONS , C9, AROMATICS	EC: 918-668-5 REACH No.: 01-2119455851-35	⚠ 2.6/3 Flam. Liq. 3 H226 ⚠ 4.1/C2 Aquatic Chronic 2 H411 ⚠ 3.8/3 STOT SE 3 H335 ⚠ 3.10/1 Asp. Tox. 1 H304 ⚠ 3.8/3 STOT SE 3 H336 EUH066 DECLP (CLP)*
>= 3% - < 5%	n-butyl acetate	Index number: 607-025-00-1 CAS: 123-86-4 EC: 204-658-1	⚠ 2.6/3 Flam. Liq. 3 H226 ⚠ 3.8/3 STOT SE 3 H336 EUH066


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		REACH No.: 01-2119485493-29	
>= 3% - < 5%	4,4'-Isopropylidene-diphenol,polymer reaction products with 1-chloro-2,3-epoxypropane: average molecular mass 850-1150	CAS: 25036-25-3 EC: 607-500-3	⚠ 3.4.2/1-1A-1B Skin Sens. 1,1A, 1B H317
>= 1% - < 3%	ethylbenzene	Index number: 601-023-00-4 CAS: 100-41-4 EC: 202-849-4 REACH No.: 01-2119489370-35	⚠ 2.6/2 Flam. Liq. 2 H225 ⚠ 3.1/4/Inhal Acute Tox. 4 H332 ⚠ 3.9/2 STOT RE 2 H373 ⚠ 3.10/1 Asp. Tox. 1 H304
>= 1% - < 3%	2-butoxyethyl acetate; butylglycol acetate	Index number: 607-038-00-2 CAS: 112-07-2 EC: 203-933-3 REACH No.: 01-2119475112-47	⚠ 3.1/4/Dermal Acute Tox. 4 H312 ⚠ 3.1/4/Oral Acute Tox. 4 H302 ⚠ 3.1/4/Inhal Acute Tox. 4 H332
>= 0.1% - < 0.25%	Reaction products of polymeric fatty acids and alcohols ethoxylated with diethylenetriamine and 2,5-Furandione	CAS: 1268617-32-8	⚠ 3.4.2/1-1A-1B Skin Sens. 1,1A, 1B H317 ⚠ 4.1/A1 Aquatic Acute 1 H400 ⚠ 4.1/C1 Aquatic Chronic 1 H410
>= 0.1% - < 0.25%	2,3-epoxypropyl neodecanoate	CAS: 26761-45-5 EC: 247-979-2 REACH No.: 01-2119431597-33	⚠ 3.4.2/1-1A-1B Skin Sens. 1,1A, 1B H317 ⚠ 3.5/2 Muta. 2 H341 ⚠ 4.1/C2 Aquatic Chronic 2 H411
720 ppm	2-methylpropan-1-ol	Index number: 603-108-00-1 CAS: 78-83-1 EC: 201-148-0 REACH No.: 01-2119484609-23	⚠ 2.6/3 Flam. Liq. 3 H226 ⚠ 3.8/3 STOT SE 3 H335 ⚠ 3.2/2 Skin Irrit. 2 H315 ⚠ 3.3/1 Eye Dam. 1 H318 ⚠ 3.8/3 STOT SE 3 H336
560 ppm	toluene	Index number: 601-021-00-3 CAS: 108-88-3 EC: 203-625-9 REACH No.: 01-2119471310-51	⚠ 2.6/2 Flam. Liq. 2 H225 ⚠ 3.2/2 Skin Irrit. 2 H315 ⚠ 3.7/2 Repr. 2 H361d ⚠ 3.8/3 STOT SE 3 H336 ⚠ 3.9/2 STOT RE 2 H373 ⚠ 3.10/1 Asp. Tox. 1 H304
9 ppm	2,2'-iminodiethylamine;	Index 612-058-00-X	3.1/4/Dermal Acute Tox. 4 H312

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	diethylenetriamine	number: 111-40-0 CAS: 203-865-4 EC: 01-2119473793 REACH No.: -27	 3.1/4/Oral Acute Tox. 4 H302 3.1/2/Oral Acute Tox. 2 H300 3.2/1B Skin Corr. 1B H314 3.8/3 STOT SE 3 H335 3.4.2/1-1A-1B Skin Sens. 1,1A, 1B H317
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*DECLP (CLP): Substance classified in accordance with Note P, Annex VI of EC Regulation (EC) 1272/2008. The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7). When the substance is not classified as a carcinogen at least the precautionary statements (P102-)P260-P262-P301 + P310-P331 (Table 3.1) or the S-phrases (2-)23-24-62 (Table 3.2) shall apply. This note applies only to certain complex oil-derived substances in Part 3.

4. FIRST AID MEASURES

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

None

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

None

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media:

In case of fire, use a dry powder fire extinguisher to extinguish.

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

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6. ACCIDENTAL RELEASE MEASURES

- 6.1. Personal precautions, protective equipment and emergency procedures
 - Wear personal protection equipment.
 - Remove all sources of ignition.
 - Remove persons to safety.
 - See protective measures under point 7 and 8.
- 6.2. Environmental precautions
 - Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
 - Retain contaminated washing water and dispose it.
 - In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
 - Suitable material for taking up: absorbing material, organic, sand
- 6.3. Methods and material for containment and cleaning up
 - Wash with plenty of water.
- 6.4. Reference to other sections
 - See also section 8 and 13

7. HANDLING AND STORAGE

- 7.1. Precautions for safe handling
 - Avoid contact with skin and eyes, inhalation of vapours and mists.
 - Don't use empty container before they have been cleaned.
 - Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
 - Contaminated clothing should be changed before entering eating areas.
 - Do not eat or drink while working.
 - See also section 8 for recommended protective equipment.
- 7.2. Conditions for safe storage, including any incompatibilities
 - Always keep in a well ventilated place.
 - Store at below 20 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.
 - Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.
 - Keep away from food, drink and feed.
 - Incompatible materials:
 - None in particular.
 - Instructions as regards storage premises:
 - Cool and adequately ventilated.
- 7.3. Specific end use(s)
 - None in particular

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1. Control parameters
 - 2-methoxy-1-methylethyl acetate - CAS: 108-65-6
 - ACGIH - TWA: 275 mg/m³, 50 ppm - STEL: 550 mg/m³, 100 ppm - Notes: H
 - EU - TWA(8h): 275 mg/m³, 50 ppm - STEL: 550 mg/m³, 100 ppm - Notes: Skin
 - OEL - TWA: 275 mg/m³, 50 ppm - STEL: 550 mg/m³, 100 ppm
 - xylene [4] - CAS: 1330-20-7
 - MAK - TWA: 100 ppm - STEL: 200 ppm - Notes: D, Skin
 - EU - TWA(8h): 221 mg/m³, 50 ppm - STEL: 442 mg/m³, 100 ppm - Notes: Skin
 - ACGIH - TWA(8h): 100 ppm - STEL: 150 ppm - Notes: A4, BEI - URT and eye irr, CNS impair
 - HYDROCARBONS, C9, AROMATICS
 - TLV TWA - 100 mg/mq
 - n-butyl acetate - CAS: 123-86-4
 - ACGIH - TWA(8h): 50 ppm - STEL: 150 ppm - Notes: Eye and URT irr
 - OEL 8h - 150 ppm
 - OEL short - 200 ppm

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ethylbenzene - CAS: 100-41-4
 EU - TWA(8h): 442 mg/m³, 100 ppm - STEL: 884 mg/m³, 200 ppm - Notes: Skin
 ACGIH - TWA(8h): 20 ppm - Notes: A3, BEI - URT irr, kidney dam (nephropathy),
 cochlear impair

2-butoxyethyl acetate; butylglycol acetate - CAS: 112-07-2
 EU - TWA(8h): 133 mg/m³, 20 ppm - STEL: 333 mg/m³, 50 ppm - Notes: Skin
 ACGIH - TWA(8h): 20 ppm - Notes: A3 - Hemolysis

2-methylpropan-1-ol - CAS: 78-83-1
 ACGIH - TWA(8h): 50 ppm - Notes: Skin and eye irr

toluene - CAS: 108-88-3
 EU - TWA(8h): 192 mg/m³, 50 ppm - STEL: 384 mg/m³, 100 ppm - Notes: Skin
 ACGIH - TWA(8h): 20 ppm - Notes: A4, BEI - Visual impair, female repro, pregnancy loss

2,2'-iminodiethylamine; diethylenetriamine - CAS: 111-40-0
 ACGIH - TWA(8h): 1 ppm - Notes: Skin - URT and eye irr

DNEL Exposure Limit Values

2-methoxy-1-methylethyl acetate - CAS: 108-65-6
 Worker Industry: 153.5 mg/kg - Consumer: 54.8 mg/kg - Exposure: Human Dermal -
 Frequency: Long Term, systemic effects
 Worker Industry: 275 mg/m³ - Consumer: 33 mg/m³ - Exposure: Human Inhalation -
 Frequency: Long Term, systemic effects
 Consumer: 1.67 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic
 effects

xylene [4] - CAS: 1330-20-7
 Worker Industry: 289 mg/m³ - Consumer: 174 mg/m³ - Exposure: Human Inhalation -
 Frequency: Short Term, local effects
 Worker Industry: 180 mg/kg - Consumer: 108 mg/kg - Exposure: Human Dermal -
 Frequency: Long Term, systemic effects
 Worker Industry: 77 mg/m³ - Consumer: 14.8 mg/m³ - Exposure: Human Inhalation -
 Frequency: Long Term, systemic effects
 Consumer: 1.6 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects
 Worker Industry: 289 mg/m³ - Consumer: 174 mg/m³ - Exposure: Human Inhalation -
 Frequency: Short Term, systemic effects

HYDROCARBONS , C9, AROMATICS
 Worker Industry: 25 mg/kg - Consumer: 11 mg/kg - Exposure: Human Dermal -
 Frequency: Long Term, systemic effects
 Worker Industry: 150 mg/m³ - Consumer: 32 mg/m³ - Exposure: Human Inhalation -
 Frequency: Long Term, systemic effects
 Consumer: 11 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

n-butyl acetate - CAS: 123-86-4
 Worker Industry: 960 ppm - Consumer: 859.7 ppm - Exposure: Human Inhalation -
 Frequency: Short Term, systemic effects
 Worker Industry: 960 ppm - Consumer: 859.7 ppm - Exposure: Human Inhalation -
 Frequency: Short Term, local effects
 Worker Industry: 480 ppm - Consumer: 102.34 ppm - Exposure: Human Inhalation -
 Frequency: Long Term, systemic effects
 Worker Industry: 480 ppm - Consumer: 102.34 ppm - Exposure: Human Inhalation -
 Frequency: Long Term, local effects

2-butoxyethyl acetate; butylglycol acetate - CAS: 112-07-2
 Consumer: 18 mg/kg - Exposure: Human Oral - Frequency: Short Term, systemic effects
 Consumer: 4.3 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects
 Consumer: 166 mg/kg - Exposure: Human Inhalation - Frequency: Short Term, local
 effects
 Worker Industry: 20 ppm - Consumer: 67 mg/kg - Exposure: Human Inhalation -
 Frequency: Long Term, systemic effects
 Worker Industry: 50 ppm - Consumer: 199 mg/kg - Exposure: Human Inhalation -
 Frequency: Short Term, local effects

2,3-epoxypropyl neodecanoate - CAS: 26761-45-5
 Worker Industry: 1.4 mg/kg - Consumer: 0.7 mg/kg - Exposure: Human Dermal -

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Frequency: Long Term, systemic effects - Notes: die
 Worker Industry: 1.965 mg/m³ - Consumer: 1 mg/m³ - Exposure: Human Inhalation -
 Frequency: Long Term, systemic effects
 Consumer: 1.1 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects
 - Notes: die

2-methylpropan-1-ol - CAS: 78-83-1

Worker Industry: 310 mg/m³ - Consumer: 55 mg/m³ - Exposure: Human Inhalation -
 Frequency: Long Term, local effects
 Consumer: 25 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

toluene - CAS: 108-88-3

Worker Industry: 192 mg/m³ - Consumer: 56.5 mg/m³ - Exposure: Human Inhalation -
 Frequency: Long Term, systemic effects
 Worker Industry: 192 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term,
 local effects
 Worker Industry: 384 mg/kg - Consumer: 226 mg/kg - Exposure: Human Dermal -
 Frequency: Long Term, systemic effects - Notes: die
 Worker Industry: 384 mg/m³ - Consumer: 226 mg/m³ - Exposure: Human Inhalation -
 Frequency: Short Term, local effects
 Worker Industry: 384 mg/m³ - Consumer: 226 mg/m³ - Exposure: Human Inhalation -
 Frequency: Short Term, systemic effects

PNEC Exposure Limit Values

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

Target: Air - Value: 0.635 mg/l
 Target: Microorganisms in sewage treatments - Value: 100 mg/l
 Target: Freshwater sediments - Value: 3.29 mg/kg
 Target: Marine water sediments - Value: 0.329 mg/kg
 Target: Marine water - Value: 0.0635 mg/l

xylene [4] - CAS: 1330-20-7

Target: Marine water - Value: 0.327 mg/l
 Target: Air - Value: 0.327 mg/l - Type of hazard: emissione saltuaria
 Target: Freshwater sediments - Value: 12.46 mg/kg
 Target: Marine water sediments - Value: 12.46 mg/kg
 Target: Soil (agricultural) - Value: 2.31 mg/kg

n-butyl acetate - CAS: 123-86-4

Target: Fresh Water - Value: 0.18 mg/l
 Target: Marine water - Value: 0.018 mg/l
 Target: Freshwater sediments - Value: 0.981 mg/kg
 Target: Marine water sediments - Value: 0.0981 mg/kg
 Target: Soil (agricultural) - Value: 0.0903 mg/kg - Notes: occasional release

2-butoxyethyl acetate; butylglycol acetate - CAS: 112-07-2

Target: Fresh Water - Value: 304 mg/l
 Target: Marine water - Value: 304 mg/l
 Target: Microorganisms in sewage treatments - Value: 90 mg/l

2,3-epoxypropyl neodecanoate - CAS: 26761-45-5

Target: Marine water - Value: 0.35 ug/l
 Target: Fresh Water - Value: 0.0035 mg/l
 Target: Microorganisms in sewage treatments - Value: 50 mg/l

2-methylpropan-1-ol - CAS: 78-83-1

Target: Marine water sediments - Value: 0.152 mg/kg
 Target: Soil (agricultural) - Value: 0.0699 mg/kg
 Target: Fresh Water - Value: 0.4 mg/l
 Target: Marine water - Value: 0.04 mg/l
 Target: Freshwater sediments - Value: 1.52 mg/kg - Notes: emissione saltuaria

toluene - CAS: 108-88-3

Target: Fresh Water - Value: 0.68 mg/l
 Target: Marine water - Value: 0.68 mg/l
 Target: Soil (agricultural) - Value: 2.89 mg/kg
 Target: Freshwater sediments - Value: 16.39 mg/l

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Target: Marine water sediments - Value: 16.39 mg/l

Target: Microorganisms in sewage treatments - Value: 13.61 mg/l

8.2. Exposure controls

Provide adequate ventilation through good general extraction using local exhaust ventilation. If concentrations of solvent or vapor exceed the OEL value, you have to wear respiratory protection.

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

NBR (nitrile rubber).

Respiratory protection:

Mask with filter "A" , brown colour

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

None

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes
Appearance and colour:	liquid gray	--	--
Odour:	solvent	--	--
Odour threshold:	solvent	--	--
pH:	N.A.	--	--
Melting point / freezing point:	N.A.	--	--
Initial boiling point and boiling range:	N.A.	--	--
Flash point:	25 ° C	--	--
Evaporation rate:	N.A.	--	--
Solid/gas flammability:	N.A.	--	--
Upper/lower flammability or explosive limits:	N.A.	--	--
Vapour pressure:	N.A.	--	--
Vapour density:	>1	--	--
Relative density:	1.23 kg/l	--	--
Solubility in water:	none	--	--

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Solubility in oil:	soluble	--	--
Partition coefficient (n-octanol/water):	N.A.	--	--
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	N.A.	--	--
Viscosity:	12" ford 8	--	--
Explosive properties:	N.A.	--	--
Oxidizing properties:	N.A.	--	--

9.2. Other information

Properties	Value	Method:	Notes
Miscibility:	none	--	--
Fat Solubility:	soluble	--	--
Conductivity:	N.A.	--	--
Substance Groups relevant properties	N.A.	--	--

10. STABILITY AND REACTIVITY

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

It may generate toxic gases on contact with powerful oxidising agents, and powerful reducing agents.

It may catch fire on contact with powerful oxidising agents.

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

10.6. Hazardous decomposition products

None.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxicological information of the product:

N.A.

Toxicological information of the main substances found in the product:

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Mouse 8532 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit 5001 mg/kg

Test: LC50 - Route: Inhalation - Species: Mouse > 35.7 mg/l - Duration: 4h - Notes: 6

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- hours
- h) STOT-single exposure:
- Test: Eye Irritant Positive
 - Test: Skin Irritant Positive
- xylene [4] - CAS: 1330-20-7
- a) acute toxicity:
- Test: LC50 - Route: Inhalation - Species: Rat 20 mg/l - Duration: 4h
 - Test: LD50 - Route: Oral - Species: Mouse 5627 mg/kg
 - Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg
- HYDROCARBONS , C9, AROMATICS
- a) acute toxicity:
- Test: LC50 - Route: Inhalation - Species: Rat > 6193 mg/m3 - Duration: 4h
 - Test: LD50 - Route: Oral - Species: Rat = 3592 mg/kg
 - Test: LD50 - Route: Skin - Species: Rabbit > 3160 mg/kg
- n-butyl acetate - CAS: 123-86-4
- a) acute toxicity:
- Test: LC50 - Route: Inhalation - Species: Rat > 21.2 mg/l - Duration: 4h
 - Test: LD50 - Route: Oral - Species: Rat 10760 mg/kg
 - Test: LD50 - Route: Skin - Species: Rabbit > 14000 mg/kg
- 4,4'-Isopropylidene-diphenol,polymer reaction products with 1-chloro-2,3-epoxypropane:
average molecular mass 850-1150 - CAS: 25036-25-3
- a) acute toxicity:
- Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg
 - Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg
- ethylbenzene - CAS: 100-41-4
- a) acute toxicity:
- Test: LD50 - Route: Oral - Species: Rat 3500 mg/kg
 - Test: LD50 - Route: Skin - Species: Rabbit 5000 mg/kg
 - Test: LC50 - Route: Inhalation - Species: Rat 4000 ppm - Duration: 4h
- 2-butoxyethyl acetate; butylglycol acetate - CAS: 112-07-2
- a) acute toxicity:
- Test: LD50 - Route: Oral - Species: Rat 1880 mg/kg - Notes: bw
 - Test: LD50 - Route: Skin - Species: Rabbit 1500 mg/kg - Notes: bw
 - Test: LC50 - Route: Inhalation - Species: Rat > 400 ppm - Duration: 4h
- 2,3-epoxypropyl neodecanoate - CAS: 26761-45-5
- a) acute toxicity:
- Test: LD50 - Route: Oral - Species: Rat = 9600 mg/kg
 - Test: LD50 - Route: Skin - Species: Rat = 3800 mg/kg
 - Test: LC50 - Route: Inhalation - Species: Rat > 240 mg/m3 - Duration: 4h
- b) skin corrosion/irritation:
- Test: Eye Irritant - Species: Rabbit Negative
- d) respiratory or skin sensitisation:
- Test: Skin Sensitization Positive
- e) germ cell mutagenicity:
- Test: Mutagenesis - Species: Salmonella Typhimurium Positive
- f) carcinogenicity:
- Test: Carcinogenicity Negative
- i) STOT-repeated exposure:
- Test: SIRO_TOX GENERAL - Species: Rat Positive 5000 ppm
- 2-methylpropan-1-ol - CAS: 78-83-1
- a) acute toxicity:
- Test: LC50 - Route: Inhalation - Species: Rat > 18.18 mg/l - Duration: 6H - Notes: 6h
 - Test: LD50 - Route: Oral - Species: Rat > 2460 mg/kg
 - Test: LD50 - Route: Skin - Species: Rabbit > 2460 mg/kg
- b) skin corrosion/irritation:
- Test: Skin Irritant Positive
- c) serious eye damage/irritation:
- Test: Eye Irritant Positive

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toluene - CAS: 108-88-3

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 4328 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit 12124 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat 5060 ppm - Duration: 4h

Test: LC50 - Route: Inhalation - Species: Rat = 28.1 mg/l - Duration: 4h

b) skin corrosion/irritation:

Test: Skin Irritant Positive

c) serious eye damage/irritation:

Test: Eye Irritant Positive

g) reproductive toxicity:

Test: Reproductive Toxicity Positive

i) STOT-repeated exposure:

Test: Ingestion Toxicity - Route: Oral Positive - Notes: sistema respiratorio, reni, fegato e cuore

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

LD50 (RAT) oral. 8532 mg/Kg

LD50 (RAT) derm. >5000 mg/kg

xylene [4] - CAS: 1330-20-7

LD50 (RAT) ORAL: 5000 MG/KG

n-b utyl acetate - CAS: 123-86-4

LD (RAT) oral, 10770 mg/kg

ethylbenzene - CAS: 100-41-4

LD50 (RAT) ORAL: 3500 MG/KG

LD50 (RAT) ORAL: 4710 MG/KG BW

If not differently specified, the information required in Regulation (EU)2015/830 listed below must be considered as N.A.:

a) acute toxicity;

b) skin corrosion/irritation;

c) serious eye damage/irritation;

d) respiratory or skin sensitisation;

e) germ cell mutagenicity;

f) carcinogenicity;

g) reproductive toxicity;

h) STOT-single exposure;

i) STOT-repeated exposure;

j) aspiration hazard.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Do not use when plants are in flower: the product is toxic for bees.

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 180 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 380 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 2000 mg/l - Duration h: 72

xylene [4] - CAS: 1330-20-7

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 1 mg/l - Duration h: 24

Endpoint: EC50 - Species: Algae = 4.36 mg/l - Duration h: 73

Endpoint: LC50 - Species: Fish = 2.6 mg/l - Duration h: 96

Endpoint: NOEC - Species: Algae = 0.44 mg/l - Duration h: 73

Endpoint: NOEC - Species: Daphnia = 1.57 mg/l - Notes: 21g

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Endpoint: NOEC - Species: Fish = 1.4 mg/l - Notes: 56g
HYDROCARBONS , C9, AROMATICS

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 9.22 mg/l - Duration h: 96

n-butyl acetate - CAS: 123-86-4

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 62 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 205 mg/l - Duration h: 48

ethylbenzene - CAS: 100-41-4

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Algae = 1.7 mg/l - Duration h: 96

Endpoint: EC50 - Species: Algae = 2.6 mg/l - Duration h: 72

Endpoint: LC50 - Species: Fish = 4.2 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 2 mg/l - Duration h: 48

2-butoxyethyl acetate; butylglycol acetate - CAS: 112-07-2

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 28 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 1570 mg/l - Duration h: 72

Endpoint: EC50 - Species: Algae = 37 mg/l - Duration h: 48

Reaction products of polymeric fatty acids and alcohols ethoxylated with diethylenetriamine and
2,5-Furandione - CAS: 1268617-32-8

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Algae = 0.9 mg/l - Duration h: 72

Endpoint: LC50 - Species: Daphnia = 0.9 mg/l - Duration h: 48

Endpoint: LC50 - Species: Fish = 0.9 mg/l - Duration h: 96

2,3-epoxypropyl neodecanoate - CAS: 26761-45-5

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Algae = 3.5 mg/l - Duration h: 96

Endpoint: LC50 - Species: Fish = 5 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 4.8 mg/l - Duration h: 48

toluene - CAS: 108-88-3

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Algae = 12.5 mg/l - Duration h: 72 - Notes: Pseudokirchneriella subcapitata

Endpoint: EC50 - Species: Algae = 433 mg/l - Duration h: 96 - Notes: Pseudokirchneriella subcapitata

Endpoint: LC50 - Species: Fish = 12.6 mg/l - Duration h: 96 - Notes: Pimephales promelas

Endpoint: LC50 - Species: Fish = 28.2 mg/l - Duration h: 96 - Notes: Poecilia reticulata

Endpoint: EC50 - Species: Daphnia = 5.5 mg/l - Duration h: 48 - Notes: Daphnia magna

12.2. Persistence and degradability

None

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

Biodegradability: Easily biodegradable - Test: N.A. - Duration h: N.A. - %: N.A. - Notes: N.A.

xylene [4] - CAS: 1330-20-7

Biodegradability: Easily biodegradable - Test: N.A. - Duration h: N.A. - %: N.A. - Notes: N.A.

HYDROCARBONS , C9, AROMATICS

Biodegradability: Easily biodegradable - Test: N.A. - Duration h: N.A. - %: N.A. - Notes: N.A.

n-butyl acetate - CAS: 123-86-4

Biodegradability: Easily biodegradable - Test: N.A. - Duration h: N.A. - %: 83 - Notes: 28 days

2,3-epoxypropyl neodecanoate - CAS: 26761-45-5

Biodegradability: Non-readily biodegradable - Test: N.A. - Duration h: N.A. - %: N.A. - Notes: N.A.

2-methylpropan-1-ol - CAS: 78-83-1

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Biodegradability: Easily biodegradable - Test: N.A. - Duration h: N.A. - %: N.A. - Notes: N.A.

- 12.3. Bioaccumulative potential
 2-methoxy-1-methylethyl acetate - CAS: 108-65-6
 Bioaccumulation: Not bioaccumulative - Test: N.A. N.A. - Duration h: N.A. - Notes: N.A.
 2,3-epoxypropyl neodecanoate - CAS: 26761-45-5
 Bioaccumulation: Not bioaccumulative - Test: N.A. N.A. - Duration h: N.A. - Notes: N.A.
- 12.4. Mobility in soil
 2-methoxy-1-methylethyl acetate - CAS: 108-65-6
 Mobility in soil: Mobile - Test: N.A. N.A. - Duration h: N.A. - Notes: fast evaporating
- 12.5. Results of PBT and vPvB assessment
 vPvB Substances: None - PBT Substances: None
- 12.6. Other adverse effects
 None

13. DISPOSAL CONSIDERATIONS

- 13.1. Waste treatment methods
 Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

14. TRANSPORT INFORMATION



- 14.1. UN number
 ADR-UN Number: 1263
 IATA-UN Number: 1263
 IMDG-UN Number: 1263
- 14.2. UN proper shipping name
 ADR-Shipping Name: PAINT
 IATA-Shipping Name: PAINT
 IMDG-Shipping Name: PAINT
- 14.3. Transport hazard class(es)
 ADR-Class: 3
 ADR - Hazard identification number: 30
 IATA-Class: 3
 IATA-Label: 3
 IMDG-Class: 3
- 14.4. Packing group
 ADR-Packing Group: III
 IATA-Packing group: III
 IMDG-Packing group: III
- 14.5. Environmental hazards
 ADR-Environmental Pollutant: No
 IMDG-Marine pollutant: No
- 14.6. Special precautions for user
 ADR-Subsidiary risks: -
 ADR-S.P.: 163 640E 650
 ADR-Transport category (Tunnel restriction code): (D/E)
 IATA-Passenger Aircraft: 355
 IATA-Subsidiary risks: -
 IATA-Cargo Aircraft: 366
 IATA-S.P.: A3 A72
 IATA-ERG: 3L

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IMDG-EmS: F-E , S-E
IMDG-Subsidiary risks: -
IMDG-Stowage and handling: Category A
IMDG-Segregation: -
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
N.A.

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Dir. 67/548/EEC (Classification, packaging and labelling of dangerous substances). Dir. 99/45/EEC (Classification, packaging and labelling of dangerous preparations). Dir. 98/24/EC (Risks related to chemical agents at work). Dir. 2000/39/EC (Occupational exposure limit values); Dir. 2006/8/CE. Regulation (CE) n. 1907/2006 (REACH), Regulation (CE) n.1272/2008 (CLP), Regulation (CE) n.790/2009.

Volatile Organic compounds - VOCs = 479.47 g/l

Volatile CMR substances = 0.02 %

Halogenated VOCs which are assigned the risk phrase R40 = 0.00 %

Organic Carbon - C = 0.29

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)

Regulation (EC) nr 648/2004 (detergents).

Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

Product belongs to category: P5c

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

16. OTHER INFORMATION

Full text of phrases referred to in Section 3:

H226 Flammable liquid and vapour.

H332 Harmful if inhaled.

H312 Harmful in contact with skin.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H315 Causes skin irritation.

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

H304 May be fatal if swallowed and enters airways.

H411 Toxic to aquatic life with long lasting effects.

H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

H317 May cause an allergic skin reaction.

H225 Highly flammable liquid and vapour.

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

H302 Harmful if swallowed.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H341 Suspected of causing genetic defects.

H318 Causes serious eye damage.

H361d Suspected of damaging the unborn child.

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

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H300 Fatal if swallowed.

H314 Causes severe skin burns and eye damage.

Hazard class and hazard category	Code	Description
Flam. Liq. 2	2.6/2	Flammable liquid, Category 2
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Acute Tox. 2	3.1/2/Oral	Acute toxicity (oral), Category 2
Acute Tox. 4	3.1/4/Dermal	Acute toxicity (dermal), Category 4
Acute Tox. 4	3.1/4/Inhal	Acute toxicity (inhalation), Category 4
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Asp. Tox. 1	3.10/1	Aspiration hazard, Category 1
Skin Corr. 1B	3.2/1B	Skin corrosion, Category 1B
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Skin Sens. 1	3.4.2/1	Skin Sensitisation, Category 1
Skin Sens. 1,1A,1B	3.4.2/1-1A-1B	Skin Sensitisation, Category 1,1A,1B
Muta. 2	3.5/2	Germ cell mutagenicity, Category 2
Repr. 2	3.7/2	Reproductive toxicity, Category 2
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
STOT RE 2	3.9/2	Specific target organ toxicity - repeated exposure, Category 2
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1
Aquatic Chronic 2	4.1/C2	Chronic (long term) aquatic hazard, category 2
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3

Paragraphs modified from the previous revision:

SECTION 2: Hazards identification

SECTION 3: Composition/information on ingredients

4. FIRST AID MEASURES

6. ACCIDENTAL RELEASE MEASURES

7. HANDLING AND STORAGE

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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SECTION 16: Other information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Flam. Liq. 3, H226	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method
STOT RE 2, H373	Calculation method
Aquatic Chronic 3, H412	Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,
Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van
Nostrand Reinold

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