SAFETY DATA SHEET according to regulation 1907/2006

Product name: 7040 M4 1K Universal Primer

Creation date: 08.04.2021, Revision: 08.04.2021, version: 1.0

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name
7040 M4 1K Universal Primer

Product code
7040

UFI:
FEY8-46E2-T009-MDG8

https://my.chemius.net/p/kJSw6T/en/pd/en

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

Relevant identified uses
No information.

Uses advised against
No information.

1.3 Details of the supplier of the safety data sheet

Supplier
SILCO d.o.o.
Sentrupert 5a
3303 Gomilsko, Slovenia
00386 3 703 3180
n.cvilak@silco.si

1.4 Emergency Telephone Number

Emergency
112

Supplier
00386 3 703 3180

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)
Flam. Liq. 2; H225 Highly flammable liquid and vapour.
Eye Irrit. 2; H319 Causes serious eye irritation.
STOT SE 3; H336 May cause drowsiness or dizziness.

2.2 Label elements

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

Signal word: Danger

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
EUH066 Repeated exposure may cause skin dryness or cracking.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents/container in accordance with national regulation.

Contains:
ethyl acetate
n-butyl acetate
propan-2-ol

2.3 Other hazards

No information.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

For mixtures see 3.2.

3.2 Mixtures

NAME	CAS EC INDEX REACH	%	CLASSIFICATION ACCORDING TO REGULATION (EC) NO 1272/2008 (CLP)	SPECIFIC CONC. LIMITS	NOTES FOR SUBSTANCES
ethyl acetate	141-78-6 205-500-4 607-022-00-5	25-30	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 EUH066	/	/
cellulose nitrate	9004-70-0 - 603-037-00-6	10-15	Flam. Sol. 1; H228.1	/	/
n-butyl acetate	123-86-4 204-658-1 607-025-00-1 01-2119485493-29	5-10	Flam. Liq. 3; H226 STOT SE 3; H336 EUH066	/	/
titanium dioxide	13463-67-7 236-675-5 -	5-10	/	/	/
propan-2-ol	67-63-0 200-661-7 603-117-00-0 01-2119457558-25	2.5-5	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	/	/

xylene	1330-20-7 215-535-7 601-022-00-9	2.5-5	Flam. Liq. 3; H226 Acute Tox. 4; H312 Skin Irrit. 2; H315 Acute Tox. 4; H332	/	C
toluene	108-88-3 203-625-9 601-021-00-3	0.01-0.1	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Repr. 2; H361d STOT RE 2; H373	/	/
benzene	71-43-2 200-753-7 601-020-00-8	<0.01	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Muta. 1B; H340.1B Carc. 1A; H350.1A STOT RE 1; H372	/	E

Notes for substances

C	Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

SECTION 4: FIRST AID MEASURES

4.1 First aid measures

General notes

Never give anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency. When in doubt or if feeling unwell seek medical assistance. Show the safety data sheet and label to the physician.

Following inhalation

Remove patient to fresh air - move out of dangerous area. Obtain professional medical help!

Following skin contact

Take off all contaminated clothing. Areas of the body that have come into contact with the product must be rinsed with water. If symptoms develop and persist, seek medical attention.

Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. If irritation persists, seek professional medical attention.

Following ingestion

Do not induce vomiting! Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Consult a physician. Show the physician the safety data sheet or label.

4.2 Most important symptoms and effects, both acute and delayed

Following inhalation

Excessive exposure to spray mist, fog, or vapours may cause respiratory irritation. Vapours may cause drowsiness and dizziness.

Following skin contact

Contact with skin may cause irritation (redness, itching). Repeated exposure may cause dry skin or cracked skin.

Following eye contact

Redness, tearing, pain.

Following ingestion

May cause nausea/vomiting and diarrhea. May cause abdominal discomfort. Irritates mucous membranes in the mouth, throat, esophagus and in gastrointestinal area.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide. Dry chemical powder. Water spray. Alcohol resistant foam.

Unsuitable extinguishing media

Full water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In case of a fire toxic gases can be generated; do not inhale gases/smoke.

5.3 Advice for firefighters

Protective actions

In case of fire or heating do not breathe fumes/vapours. No action shall be taken involving any personal risk or without suitable training. Prolonged heating can cause an explosion. Vapours can form explosive mixtures with air. Cool containers at risk with water spray. If possible remove containers from endangered area.

Special protective equipment for fire-fighters

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (EN 137).

Additional information

No information.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Protective equipment

No information.

Precautionary measures

Ensure adequate ventilation. Keep away from sources of ignition and/or heat; No smoking!

Emergency procedures

No action shall be taken involving any personal risk or without suitable training. Prevent access to unprotected personnel. Evacuate the danger zone. Do not breathe vapour or mist. Avoid contact with skin, eyes and clothing.

For emergency responders

Use personal protective equipment.

6.2 Environmental precautions

Do not allow product to reach water/drains/sewage systems or permeable soil. In case of release into the environment, inform the relevant authorities.

6.3 Methods and material for containment and cleaning up

For containment

Stem the spill if this does not pose risks.

For cleaning up

Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor. Use only explosion-proof instruments and equipment. Use spark-proof tools. Prevent release into the sewer, water, basements or confined areas. Ventilate the premises. Clean contaminated area with plenty of water.

OTHER INFORMATION

No information.

6.4 Reference to other sections

See also sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Protective measures

Measures to prevent fire

Ensure adequate ventilation. Keep away from sources of ignition - no smoking. Use spark-proof tools. Take precautionary measures against static discharges. Vapours are heavier than air and spread along the floor. They form explosive mixtures with air.

Measures to prevent aerosol and dust generation

Use general or local exhaust ventilation to prevent inhaling vapours and aerosols.

Measures to protect the environment

Do not discharge into drains, surface water and soil. After use immediately close container tightly.

Other measures

No information.

Advice on general occupational hygiene

Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Do not breathe vapours/mist. Avoid contact with skin, eyes and clothes. Remove contaminated clothes and wash them before reuse. Wear suitable protective equipment; see Section 8.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep in a cool, dry and well ventilated place. Protect from open fire, heat and direct sunlight. Keep away from food, drink and animal feeding stuffs. Keep away from oxidising substances. Keep away from sources of ignition - no smoking.

Packaging materials

Store only in original container.

Requirements for storage rooms and vessels

Close opened containers after use. Put the containers upright to prevent from leaking. Do not store in unlabelled containers.

Storage class

No information.

Further information on storage conditions

No information.

7.3 Specific end use(s)

Recommendations

No information.

Industrial sector specific solutions

No information.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure limit values

NAME	MG/M^3	ML/M^3	SHORT-TERM VALUE MG/M^3	SHORT-TERM VALUE ML/M^3	REMARK	BIOLOGICAL TOLERANCE VALUES
barium sulfate	/	/	/	/		/
benzene	/	/	/	/	TWA	/
Xylene, o-,m-,p- or mixed isomers (1330-20-7)	220	50	441	100	Sk, BMGV	650 mmol methyl hippuric acid/mol creatinine in urine - Post shift
Benzene (71-43-2)	3.25	1	/	/	Carc, Sk	/
Barium sulphate inhalable dust (7727-43-7)	10	/	/	/	/	/
Barium sulphate respirable dust (7727-43-7)	4	/	/	/	/	/
Butyl acetate (123-86-4)	724	150	966	200	/	/
Ethyl acetate (141-78-6)	734	200	1468	400	/	/
Propan-2-ol (67-63-0)	999	400	1250	500	/	/
Titanium dioxide respirable (13463-67-7)	4	/	/	/	/	/
Titanium dioxide total inhalable (13463-67-7)	10	/	/	/	/	/
Toluene (108-88-3)	191	50	384	100	Sk	/

Information on monitoring procedures

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 482:2012+A1:2015 Workplace exposure. General requirements for the performance of procedures for the measurement of chemical agents.

DNEL/DMEL values

For product

No information.

For components

NAME	TYPE	EXPOSURE ROUTE	EXP. FREQUENCY	REMARK	VALUE
ethyl acetate	Worker	inhalation	long term systemic effects	/	734 mg/m³
ethyl acetate	Worker	inhalation	short term systemic effects	/	1468 mg/m³
ethyl acetate	Worker	inhalation	long term local effects	/	734 mg/m³
ethyl acetate	Worker	inhalation	short term local effects	/	1468 mg/m³
ethyl acetate	Worker	dermal	long term systemic effects	/	63 mg/kg bw/day
ethyl acetate	Consumer	inhalation	long term systemic effects	/	367 mg/m³
ethyl acetate	Consumer	inhalation	short term systemic effects	/	734 mg/m³

ethyl acetate	Consumer	inhalation	long term local effects	/	367 mg/m³
ethyl acetate	Consumer	inhalation	short term local effects	/	734 mg/m³
ethyl acetate	Consumer	dermal	long term systemic effects	/	37 mg/kg bw/day
ethyl acetate	Consumer	oral	long term systemic effects	/	4.5 mg/kg bw/day
n-butyl acetate	Worker	inhalation	long term systemic effects	/	300 mg/m³
n-butyl acetate	Worker	inhalation	short term systemic effects	/	600 mg/m³
n-butyl acetate	Worker	inhalation	long term local effects	/	300 mg/m³
n-butyl acetate	Worker	inhalation	short term local effects	/	600 mg/m³
n-butyl acetate	Worker	dermal	long term systemic effects	/	11 mg/kg bw/day
n-butyl acetate	Worker	dermal	short term systemic effects	/	11 mg/kg bw/day
n-butyl acetate	Consumer	inhalation	long term systemic effects	/	35.7 mg/m³
n-butyl acetate	Consumer	inhalation	short term systemic effects	/	300 mg/m³
n-butyl acetate	Consumer	inhalation	long term local effects	/	35.7 mg/m³
n-butyl acetate	Consumer	inhalation	short term local effects	/	300 mg/m³
n-butyl acetate	Consumer	dermal	long term systemic effects	/	6 mg/kg bw/day
n-butyl acetate	Consumer	dermal	short term systemic effects	/	6 mg/kg bw/day
n-butyl acetate	Consumer	oral	long term systemic effects	/	2 mg/kg bw/day
n-butyl acetate	Consumer	oral	short term systemic effects	/	2 mg/kg bw/day
xylene	Worker	inhalation	long term systemic effects	/	221 mg/m³
xylene	Worker	inhalation	short term systemic effects	/	442 mg/m³
xylene	Worker	inhalation	long term local effects	/	221 mg/m³
xylene	Worker	inhalation	short term local effects	/	442 mg/m³
xylene	Worker	dermal	long term systemic effects	/	212 mg/kg bw/day
xylene	Consumer	inhalation	long term systemic effects	/	65.3 mg/m³
xylene	Consumer	inhalation	short term systemic effects	/	260 mg/m³
xylene	Consumer	inhalation	long term local effects	/	65.3 mg/m³
xylene	Consumer	inhalation	short term local effects	/	260 mg/m³
xylene	Consumer	dermal	long term systemic effects	/	125 mg/kg bw/day
xylene	Consumer	oral	long term systemic effects	/	12.5 mg/kg bw/day
toluene	Worker	inhalation	long term systemic effects	/	192 mg/m³
toluene	Worker	inhalation	short term systemic effects	/	384 mg/m³

toluene	Worker	inhalation	long term local effects	/	192 mg/m³
toluene	Worker	inhalation	short term local effects	/	384 mg/m³
toluene	Worker	dermal	long term systemic effects	/	384 mg/kg bw/day
toluene	Consumer	inhalation	long term systemic effects	/	56.5 mg/m³
toluene	Consumer	inhalation	short term systemic effects	/	226 mg/m³
toluene	Consumer	inhalation	long term local effects	/	56.5 mg/m³
toluene	Consumer	inhalation	short term local effects	/	226 mg/m³
toluene	Consumer	dermal	long term systemic effects	/	226 mg/kg bw/day
toluene	Consumer	oral	long term systemic effects	/	8.13 mg/kg bw/day
benzene	Worker	inhalation	long term systemic effects	/	1.9 mg/m³

PNEC values

For product

No information.

For components

NAME	EXPOSURE ROUTE	REMARK	VALUE
ethyl acetate	fresh water	/	0.24 mg/L
ethyl acetate	water, intermittent release	/	1.65 mg/L
ethyl acetate	marine water	/	0.024 mg/L
ethyl acetate	water treatment plant	/	650 mg/L
ethyl acetate	fresh water sediment	dry weight	1.15 mg/kg
ethyl acetate	marine water sediment	dry weight	0.115 mg/kg
ethyl acetate	soil	dry weight	0.148 mg/kg
ethyl acetate	secondary poisoning	food	0.2 g/kg
n-butyl acetate	fresh water	/	0.18 mg/L
n-butyl acetate	water, intermittent release	/	0.36 mg/L
n-butyl acetate	marine water	/	0.018 mg/L
n-butyl acetate	water treatment plant	/	35.6 mg/L
n-butyl acetate	fresh water sediment	dry weight	0.981 mg/kg
n-butyl acetate	marine water sediment	dry weight	0.098 mg/kg
n-butyl acetate	soil	dry weight	0.09 mg/kg
xylene	fresh water	/	0.327 mg/L
xylene	water, intermittent release	/	0.327 mg/L

xylene	marine water	/	0.327 mg/L
xylene	water treatment plant	/	6.58 mg/L
xylene	fresh water sediment	dry weight	12.46 mg/kg
xylene	marine water sediment	dry weight	12.46 mg/kg
xylene	soil	dry weight	2.31 mg/kg
toluene	fresh water	/	0.68 mg/L
toluene	water, intermittent release	/	0.68 mg/L
toluene	marine water	/	0.68 mg/L
toluene	water treatment plant	/	13.61 mg/L
toluene	fresh water sediment	dry weight	16.39 mg/kg
toluene	marine water sediment	dry weight	16.39 mg/kg
toluene	soil	dry weight	2.89 mg/kg
benzene	fresh water	/	1.9 mg/L
benzene	water, intermittent release	/	1.9 mg/L
benzene	marine water	/	1.9 mg/L
benzene	water, marine, intermittent release	/	1.9 mg/L
benzene	water treatment plant	/	39 mg/L
benzene	fresh water sediment	dry weight	33 mg/kg
benzene	marine water sediment	dry weight	33 mg/kg
benzene	soil	dry weight	4.8 mg/kg

8.2 Exposure controls

Appropriate engineering control

Substance/mixture related measures to prevent exposure during identified uses

Use good personal hygiene practices – wash hands at breaks and when done working with material. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothes. Do not eat, drink or smoke while working. Do not breathe vapours/aerosols.

Structural measures to prevent exposure

No information.

Organisational measures to prevent exposure

Remove all contaminated clothes immediately and wash them before reuse.

Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration. Keep away from food, drink and animal feeding stuffs.

Personal protective equipment

Eye and face protection

Safety glasses with side protection (EN 166).

Hand protection

Protective gloves (EN 374). Observe the manufacturer's instructions regarding the use, storage, maintenance and

replacement of gloves. In case of damage or at the first signs of wear and tear, change the gloves immediately. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. The penetration time is determined by the protective glove manufacturer and must be observed.

Appropriate materials

Skin protection

Protective antistatic clothing EN 1149 (1:2006, 2:1998 and 3:2004, 5:2008), protective antistatic shoes (EN 20345:2012). At high risk of skin exposure chemical suits (EN ISO 6530:2005) and boots may be required (EN ISO 20345:2012).

Respiratory protection

In case of insufficient ventilation wear suitable respiratory protection. Wear suitable protective breathing mask (EN 136) with filter A2-P2 (EN 14387).

Thermal hazards

No information.

Environmental exposure controls

Substance/mixture related measures to prevent exposure

No information.

Instruction measures to prevent exposure

No information.

Organisational measures to prevent exposure

No information.

Technical measures to prevent exposure

Do not allow product to reach drains, sewage systems or ground water.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state

liquid

Colour

gray

Odour

No information.

Important health, safety and environmental information

Odour threshold	No information.
pH	7 at 20 °C, conc. 100 %
Melting point/Freezing point	No information.
Initial boiling point/boiling range	No information.
Flash point	4 °C ((Closed cup))
Evaporation rate	No information.
Flammability (solid, gas)	No information.
Explosion limits (vol%)	No information.
Vapour pressure	No information.
Vapour density	No information.
Density / weight	No information.
Solubility	No information.

Partition coefficient	No information.
Auto-ignition temperature	No information.
Decomposition temperature	No information.
Viscosity	No information.
Explosive properties	No information.
Oxidising properties	No information.

9.2 OTHER INFORMATION

No information.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No information.

10.2 Chemical stability

Product is stable under normal conditions of use, recommended handling and storage conditions.

10.3 Possibility of hazardous reactions

Vapours and air can form flammable or explosive mixtures.

10.4 Conditions to avoid

Protect from heat, direct sunlight, open fire, sparks.

10.5 Incompatible materials

Oxidants.

10.6 Hazardous decomposition products

Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

(a) Acute toxicity

For components

NAME	EXPOSURE ROUTE	TYPE	SPECIES	TIME	VALUE	METHOD	REMARK

ethyl acetate	oral	LD_{50}	rabbit	/	4935 mg/kg	/	/
ethyl acetate	inhalation	LC_{50}	rat	4 h	1600 mg/l	/	/
barium sulfate	oral	LD_{50}	rat (male)	/	307 - 364 g/kg	OECD 401	/
barium sulfate	dermal	LD_{50}	rat	/	> 2000 mg/kg bw	OECD 402	/
cellulose nitrate	oral	LD_{50}	rat	/	> 5000 mg/kg	/	/
n-butyl acetate	dermal	LD_{50}	rabbit	/	5000 mg/kg	/	/
n-butyl acetate	inhalation	LC_{50}	rat	4 h	9.6 - 29.2 mg/l	/	dust/aerosol
n-butyl acetate	oral	LD_{50}	rat	/	4700 mg/kg	/	/
titanium dioxide	oral	LD_{50}	rat	/	> 10000 mg/kg	/	/
titanium dioxide	dermal	LD_{50}	rabbit	/	> 10000 mg/kg	/	/
titanium dioxide	inhalation (dusts/mists)	LC_{50}	rat	4 h	> 6.82 mg/l	/	/
xylene	oral	LD_{50}	rat	/	> 3523 mg/kg	/	/
xylene	dermal	LD_{50}	rabbit	/	4200 mg/kg	/	/
xylene	inhalation (vapours)	LC_{50}	rat	4 h	29 mg/l	/	/
toluene	oral	LD_{50}	rat	/	5580 mg/kg	/	/
toluene	dermal	LD_{50}	rabbit	/	12124 mg/kg	/	/
toluene	inhalation	LC_{50}	rat	4 h	28.1 mg/l	/	vapour
benzene	oral	LD_{50}	rat	/	930 mg/kg	/	/

Additional information

The product is not classified for acute toxicity.

(b) Skin corrosion/irritation

For components

NAME	SPECIES	TIME	RESULT	METHOD	REMARK
titanium dioxide	rabbit	/	Non-irritant.	/	/
toluene	/	/	Irritating.	/	/

Additional information

The product is not classified as irritating to skin and eyes.

(c) Serious eye damage/irritation

For components

NAME	EXPOSURE ROUTE	SPECIES	TIME	RESULT	METHOD	REMARK
titanium dioxide	/	rabbit	/	Non-irritant.	/	/
toluene	/	/	/	Conjuctivitis and irritation of cornea.	/	/

Additional information

Causes serious eye irritation.

(d) Respiratory or skin sensitisation

For components

NAME	EXPOSURE ROUTE	SPECIES	TIME	RESULT	METHOD	REMARK
titanium dioxide	dermal	human and animal	/	Non sensitising.	/	/

Additional information

The product is not classified as sensitising.

(e) (Germ cell) mutagenicity

For components

NAME	TYPE	SPECIES	TIME	RESULT	METHOD	REMARK
titanium dioxide	in-vitro mutagenicity	/	/	Non-mutagenic.	/	/

(f) Carcinogenicity

For components

NAME	EXPOSURE ROUTE	TYPE	SPECIES	TIME	VALUE	RESULT
titanium dioxide	/	/	/	/	/	IARC 2B: Possibly carcinogenic to humans.
titanium dioxide	oral	-	Multiple animal species	/	/	Not carcinogenic.
titanium dioxide	inhalation	-	rat	/	/	carcinogenic
benzene	/	/	/	/	/	IARC 1: Carcinogenic to humans.
benzene	/	/	/	/	/	ACGIH Group A1: Confirmed human carcinogen.
benzene	/	/	/	/	/	NTP: Known To Be Human Carcinogen.
benzene	/	/	/	/	/	GHS/CLP: Carcinogenicity Category 1A.

(g) Reproductive toxicity

No information.

Summary of evaluation of the CMR properties

The product is not classified as carcinogenic, mutagenic or toxic for reproduction.

(h) STOT-single exposure

For components

NAME	EXPOSURE ROUTE	TYPE	SPECIES	TIME	ORGAN	VALUE	RESULT	METHOD	EXPOSURE	REMARK
toluene	inhalation	/	/	/	/	/	Irritates respiratory system.	/	/	/

Additional information

May cause drowsiness or dizziness. STOT SE (single exposure): Not classified.

(i) STOT-repeated exposure

For components

NAME	EXPOSURE ROUTE	TYPE	SPECIES	TIME	ORGAN	VALUE	RESULT	METHOD	EXPOSURE	REMARK

titanium dioxide	inhalation	LOAEL	rat	2 years	Respiratory system	0.01 mg/L	Some positive data exist, but the data are not sufficient for classification.	/	/	/
titanium dioxide	inhalation	-	human	/	/	/	pulmonary fibrosis: negative	/	/	occupational exposure

Additional information

Repeated exposure may cause skin dryness or cracking. STOT RE (repeated exposure): Not classified.

(j) Aspiration hazard

No information.

Additional information

Aspiration hazard: Not classified.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Acute (short-term) toxicity

For components

NAME	TYPE	VALUE	EXPOSURE TIME	SPECIES	ORGANISM	METHOD	REMARK
barium sulfate	LC_{50}	> 152 mg/L	96 h	fish	*Danio rerio*	OECD 203	/
barium sulfate	LC_{50}	14500 µg/l	48 h	daphnia	*Daphnia magna*	/	/
barium sulfate	EC_{50}	> 1.15 mg/L	72 h	algae	*Pseudokirchneriella subcapitata*	OECD 201	/
barium sulfate	EC_{50}	> 622 mg/L	3 h	bacteria	Activated sludge	OECD 209 Activated Sludge, Respiration Inhibition Test	/
n-butyl acetate	LC_{50}	18 mg/L	96 h	fish	/	/	/
n-butyl acetate	EC_{50}	44 mg/L	48 h	crustacea	/	/	/
n-butyl acetate	EC_{50}	675 mg/L	72 h	algae	/	/	/
xylene	LC_{50}	13.4 mg/L	96 h	fish	*Pimephales promelas*	/	/
xylene	LC_{50}	13.1 - 16.5 mg/L	96 h	fish	*Lepomis macrochirus*	/	/
xylene	LC_{50}	2661 - 4093 mg/L	96 h	fish	*Oncorhynchus mykiss*	/	/
xylene	LC_{50}	19 mg/L	96 h	fish	*Lepomis macrochirus*	/	/
xylene	LC_{50}	30.26 - 40.75 mg/L	96 h	fish	*Poecilia reticulata*	/	/

xylene	LC_{50}	23.53 - 29.97 mg/L	96 h	fish	*Pimephales promelas*	/	/
xylene	LC_{50}	7711 - 9591 mg/L	96 h	fish	*Lepomis macrochirus*	/	/
xylene	LC_{50}	780 mg/L	96 h	fish	*Cyprinus carpio*	/	/
xylene	LC_{50}	> 780 mg/L	96 h	fish	*Cyprinus carpio*	/	/
xylene	LC_{50}	13.5 - 17.3 mg/L	96 h	fish	*Oncorhynchus mykiss*	/	/
xylene	EC_{50}	3.82 mg/L	48 h	daphnia	/	/	/
toluene	LC_{50}	7.63 mg/L	96 h	fish	*Oncorhynchus mykiss*	/	/
toluene	EC_{50}	6 mg/L	48 h	daphnia	*Daphnia magna*	/	/
benzene	LC_{50}	630 mg/L	96 h	fish	/	/	/

Chronic (long-term) toxicity

For components

NAME	TYPE	VALUE	EXPOSURE TIME	SPECIES	ORGANISM	METHOD	REMARK
barium sulfate	NOEC	≥ 100 mg/l	33 days	fish	*Danio rerio*	OECD 210	/
barium sulfate	EC16	5800 µg/L	21 days	Magna Daphnia	*Daphnia magna*	/	/

12.2 Persistence and degradability

Abiotic degradation, physical- and photo-chemical elimination

No information.

Biodegradation

For components

NAME	TYPE	RATE	TIME	EVALUATION	METHOD	REMARK
benzene	-	/	/	readily biodegradable	/	/

12.3 Bioaccumulative potential

Partition coefficient

For components

NAME	MEDIA	VALUE	TEMPERATURE	PH	CONCENTRATION	METHOD
benzene	Log Pow	2.13	/	/	/	/

Bioconcentration factor (BCF)

For components

NAME	SPECIES	ORGANISM	VALUE	DURATION	EVALUATION	METHOD	REMARK
benzene	BCF	/	< 10	/	/	/	/

12.4 Mobility in soil

Known or predicted distribution to environmental compartments
No information.

Surface tension
No information.

Adsorption/Desorption
No information.

12.5 Results of PBT and vPvB assessment

No evaluation.

12.6 Other adverse effects

No information.

12.7 Additional information

For product
Product is not classified as dangerous for environment. Do not allow to reach ground water, water courses or sewage system.

For components
toluene
Chemical Oxygen Demand (COD) 0,7 g/g

benzene
Evaporates quickly.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product / Packaging disposal
Waste chemical
Do not allow product to reach drains/sewage systems. Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste.

Waste codes / waste designations according to LoW
No information.

Packaging
Deliver completely emptied containers to approved waste disposal authorities. Uncleaned containers are classified as hazardous waste - they should be handled in the same manner as the contents. Uncleaned containers should not be perforated, cut or welded. Empty containers represent a fire hazard as they may contain flammable product residues and vapour.

Waste codes / waste designations according to LoW
No information.

Waste treatment-relevant information
No information.

Sewage disposal-relevant information
No information.

Other disposal recommendations
No information.

SECTION 14: TRANSPORT INFORMATION

ADR/RID	IMDG	IATA	ADN
14.1 UN number			
UN 1263	UN 1263	UN 1263	UN 1263
14.2 UN proper shipping name			
PAINT *(including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base vapour pressure at 50 °C more than 110 kPa)*	PAINT *(including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base vapour pressure at 50 °C more than 110 kPa)*	PAINT *(including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base vapour pressure at 50 °C more than 110 kPa)*	PAINT *(including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base vapour pressure at 50 °C more than 110 kPa)*
14.3 Transport hazard class(es)			
3	3	3	3
			
14.4 Packing group			
II	II	II	II
14.5 Environmental hazards			
NO	NO	NO	NO
14.6 Special precautions for user			
Limited quantities 5 L Transport category 2 Tunnel restriction code (D/E)	Limited quantities 5 L EmS F-E, S-E Special provisions 163, 367, 640C, 650 Packing Instructions P001 Special packing provisions PP1 Tank instructions T4 Tank special provisions TP1, TP8, TP28	Limited Quantity Packing Instructions Y341 Limited Quantity Net Qty 1 L Passenger Packing Instruction Packing Instructions 353 Passenger Packing Instruction Net Qty 5 L Special provisions A3, A72, A192	Limited quantities 5 L
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code			
Goods may not be carried in bulk in bulk containers, containers or vehicles.	Goods may not be carried in bulk in bulk containers, containers or vehicles.	Not given/not applicable	Not given/not applicable

SECTION 15: REGULATORY INFORMATION

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

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)(including last amendment Commission Regulation (EU) 2015/830)

- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

EU limit values and category: B(c) 540 g/l. VOC Content: 535 g/l

Regulation EC 648/2004 on detergents

No information.

Special instructions

Observe the regulations on employment and protection against dangerous substances for young people, pregnant women and nursing mothers.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: OTHER INFORMATION

Indication of changes

1.1 Product identifier

Key literature references and sources for data

No information.

Abbreviations and acronyms

ATE - Acute Toxicity Estimate
ADR - Agreement concerning the International Carriage of Dangerous Goods by Road
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
CEN - European Committee for Standardisation
C&L - Classification and Labelling
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
CAS# - Chemical Abstracts Service number
CMR - Carcinogen, Mutagen, or Reproductive Toxicant
CSA - Chemical Safety Assessment
CSR - Chemical Safety Report
DMEL - Derived Minimal Effect Level
DNEL - Derived No Effect Level
DPD - Dangerous Preparations Directive 1999/45/EC
DSD - Dangerous Substances Directive 67/548/EEC
DU - Downstream User
EC - European Community
ECHA - European Chemicals Agency
EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)
EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)
EEC - European Economic Community
EINECS - European Inventory of Existing Commercial Substances
ELINCS - European List of notified Chemical Substances
EN - European Standard
EQS - Environmental Quality Standard
EU - European Union
Euphrac - European Phrase Catalogue
EWC - European Waste Catalogue (replaced by LoW – see below)
GES - Generic Exposure Scenario
GHS - Globally Harmonized System
IATA - International Air Transport Association
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG - International Maritime Dangerous Goods
IMSBC - International Maritime Solid Bulk Cargoes
IT - Information Technology
IUCLID - International Uniform Chemical Information Database
IUPAC - International Union for Pure Applied Chemistry
JRC - Joint Research Centre
Kow - octanol-water partition coefficient
LC50 - Lethal Concentration to 50 % of a test population
LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)
LE - Legal Entity
LoW - List of Wastes (see http://ec.europa.eu/environment/waste/framework/list.htm)
LR - Lead Registrant
M/I - Manufacturer / Importer

MS - Member States
MSDS - Material Safety Data Sheet
OC - Operational Conditions
OECD - Organization for Economic Co-operation and Development
OEL - Occupational Exposure Limit
OJ - Official Journal
OR - Only Representative
OSHA - European Agency for Safety and Health at work
PBT - Persistent, Bioaccumulative and Toxic substance
PEC - Predicted Effect Concentration
PNEC(s) - Predicted No Effect Concentration(s)
PPE - Personal Protection Equipment
(Q)SAR - Qualitative Structure Activity Relationship
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
RIP - REACH Implementation Project
RMM - Risk Management Measure
SCBA - Self-Contained Breathing Apparatus
SDS - Safety data sheet
SIEF - Substance Information Exchange Forum
SME - Small and Medium sized Enterprises
STOT - Specific Target Organ Toxicity
(STOT) RE - Repeated Exposure
(STOT) SE - Single Exposure
SVHC - Substances of Very High Concern
UN - United Nations
vPvB - Very Persistent and Very Bioaccumulative

List of relevant H phrases

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H228 Flammable solid.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H336 May cause drowsiness or dizziness.
H340 May cause genetic defects.
H350 May cause cancer.
H361d Suspected of damaging the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure.
H373 May cause damage to organs through prolonged or repeated exposure.