Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

SILVERSHINE Ceramic White

Version 4.0

Revision Date 17.01.2023

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

1.1 Product identifier

Trade name	:	SILVERSHINE Ceramic White
Material number	:	024823QR0

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

This information is not available.

1.3 Details of the supplier of the safety data sheet

Company	: ECKART GmbH
	Guentersthal 4
	91235 Hartenstein
Telephone	: +499152770
Telefax	: +499152777008
E-mail address	: msds.eckart@altana.com
Responsible/issuing person	

1.4 Emergency telephone number

NCEC: (contract no.: ECKART29003-NCEC) +44 1235 239671 (Middle East/Africa, call and response in your language) +1 215 207 0061 (Americas, call and response in your language) +65 3158 1074 (Asia-Pacific, call and response in your language)

SECTION 2: Hazards identification

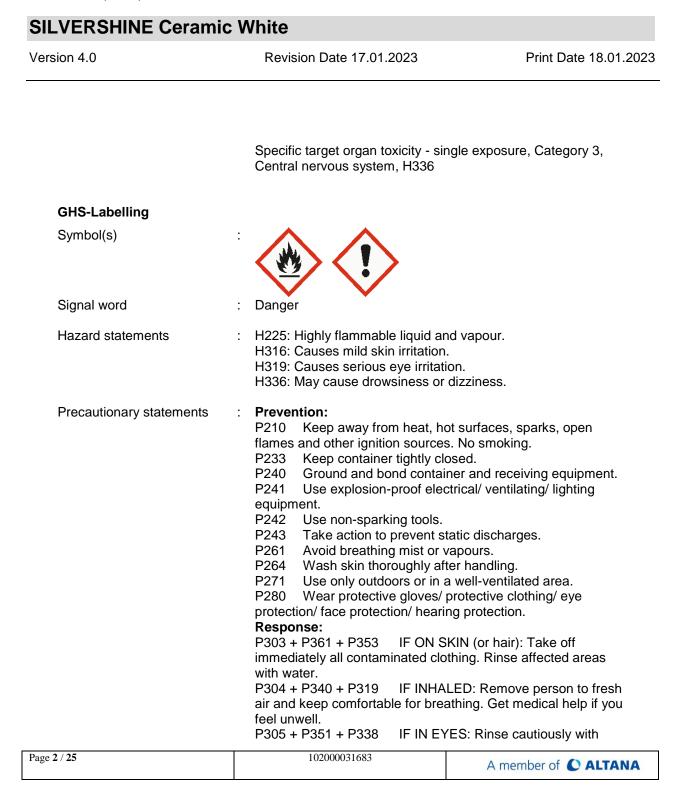
GHS Classification

: Flammable liquids, Category 2, H225 Skin corrosion/irritation, Category 3, H316 Serious eye damage/eye irritation, Category 2A, H319

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water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332 + P317 If skin irritation occurs: Get medical help. P337 + P317 If eye irritation persists: Get medical help. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. Storage: P403 + P233 Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. P403 + P235 P405 Store locked up. Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label

÷

Identification	CAS-No.
n-butyl acetate	123-86-4
butan-1-ol	71-36-3

SECTION 3: Composition/information on ingredients

Substance No.

Hazardous components

Chemical name	CAS-No. EINECS-No.	Classification and labelling	Concentration[%]
n-butyl acetate	123-86-4 204-658-1	Flam. Liq.;3;H226 STOT SE;3;H336	25 - 50
titanium dioxide	13463-67-7 236-675-5	Acute Tox.;5;H333	10 - 20

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aluminium	7429-90-5 231-072-3	Flam. Sol.;1;H228	10 - 20
Naphtha (petroleum), hydrotreated heavy	64742-48-9 918-481-9	Flam. Liq.;4;H227 Asp. Tox.;1;H304	1 - 10
butan-1-ol	71-36-3 200-751-6	Flam. Liq.;3;H226 ;2;H315 ;1;H318 STOT SE;3;H335, H336	1 - 3

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	: Move the victim to fresh air.	
	Move out of dangerous area. Show this safety data sheet to Do not leave the victim unatten	
If inhaled	: Remove to fresh air. Consult a physician after signifi If unconscious, place in recove advice.	•
In case of skin contact	: Wash off immediately with soap	o and plenty of water.
	If skin irritation persists, call a p If on clothes, remove clothes.	bhysician.
In case of eye contact	: Immediately flush eye(s) with plenty of water.	
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	Immediately flush eye(s) with plenty of water. Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	 Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

This information is not available.

4.3 Indication of any immediate medical attention and special treatment needed

This information is not available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	: Dry sand, ABC powder, Foam
Unsuitable extinguishing media	: High volume water jet, Carbon dioxide (CO2)

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting	:	Do not allow run-off from fire fig courses.	nting to enter drains or water
5.3 Advice for firefighters			
Special protective equipment for firefighters	:	Wear self-contained breathing a necessary.	pparatus for firefighting if
Further information	:	Collect contaminated fire exting must not be discharged into dra	
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contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use a water spray to cool fully closed containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	 Evacuate personnel to safe areas. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
6.2 Environmental precautions	
Environmental precautions	: The product should not be allowed to enter drains, water courses or the soil.
	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
6.3 Methods and materials for con	tainment and cleaning up
Methods for cleaning up	: Use mechanical handling equipment. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
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Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling	: Avoid formation of aerosol. Do Avoid exposure - obtain special contact with skin and eyes. For section 8. Smoking, eating and in the application area. Take pr static discharges. Provide suffic exhaust in work rooms. Open d	I instructions before use. Avoid personal protection see drinking should be prohibited ecautionary measures against cient air exchange and/or Irum carefully as content may
	be under pressure. Dispose of local and national regulations.	rinse water in accordance with
Advice on protection against fire and explosion	: Do not spray on a naked flame Take necessary action to avoid (which might cause ignition of c explosion-proof equipment. Kee surfaces and sources of ignition	static electricity discharge organic vapours). Use only ep away from open flames, hot
Hygiene measures	: When using do not eat or drink. Wash hands before breaks and	
7.2 Conditions for safe storage, i	ncluding any incompatibilities	
Requirements for storage areas and containers	: Earthing of containers and appa with water liberates extremely f measures to prevent the build u explosion-proof equipment. Sto containers tightly closed in a co	lammable gas (hydrogen) Take up of electrostatic charge. Use vre in original container. Keep
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Revision Date 17.01.2023 away from sources of ignition - No smoking. Keep container closed when not in use. No smoking. Keep container tightly closed in a dry and wellventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards. Further information on : Protect from humidity and water. storage conditions Advice on common storage : Do not store near acids. Do not store together with oxidizing and self-igniting products. Never allow product to get in contact with water during storage. Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

This information is not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Germany:

acetate Peak-limit: exc	cursion	2;(l)	500 mg/m3		
n-butyl	123-86-4	AGW	62 ppm 300 mg/m3	2012-09-13	DE TRGS 900
Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis

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factor (category						
Further information		Commission for dangerous substancesWhen there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child				
n-butyl acetate	123-86-4	STEL	150 ppm 723 mg/m3	2019-10-31	2019/1831/E	
Further informa	ation	Indicative				
n-butyl acetate	123-86-4	TWA	50 ppm 241 mg/m3	2019-10-31	2019/1831/E	
Further informa	ation	Indicative				
titanium dioxide	13463-67- 7	AGW (Inhalable fraction)	10 mg/m3	2021-07-02	DE TRGS 90	
Peak-limit: excursion factor (category)		2;(II)	1			
Further information		When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child				
titanium dioxide	13463-67- 7	AGW (Alveolate fraction)	1,25 mg/m3	2021-07-02	DE TRGS 90	
Peak-limit: exc factor (category		2;(II)		1		
Further informa	ation	When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child				
titanium dioxide	13463-67- 7	AGW (Inhalable fraction)	10 mg/m3	2014-04-02	DE TRGS 90	
Peak-limit: exc factor (category		2;(II)				
Further informa	ation	exposure limit va have informatior organs in exces	lue. For this substa alue is established, n regarding unspeci s of the normal valu ate commission for	since the AGS fic action on the les.Commission	does not yet e respiratory n for dangerous	
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		the work place of	langerous for the	health (MAK-con	nmission).
titanium dioxide	13463-67- 7	AGW (Alveolate fraction)	1,25 mg/m3	2014-04-02	DE TRGS 900
Peak-limit: exc factor (categor		2;(II)			
Further informa	ation	exposure limit va have informatior organs in excess substancesSena	lue. For this subs alue is established regarding unspe s of the normal va ate commission fo langerous for the	d, since the AGS ccific action on the alues.Commission or the review of co	does not yet e respiratory n for dangerous ompounds at
aluminium	7429-90-5	AGW (Inhalable fraction)	10 mg/m3	2021-07-02	DE TRGS 900
Peak-limit: exc factor (categor		2;(II)			
Further informa	ation		ompliance with the		
aluminium	7429-90-5	AGW (Alveolate fraction)	1,25 mg/m3	2021-07-02	DE TRGS 900
Peak-limit: exc factor (categor		2;(II)			
Further informa	ation		ompliance with the		
Naphtha (petroleum), hydrotreated heavy	64742-48- 9	AGW	300 mg/m3	2017-11-30	DE TRGS 900
Peak-limit: exc factor (categor		2;(II)	•	·	
Further informa	ation		limit for hydrocar ssion for dangero)		e also No. 2.9
butan-1-ol	71-36-3	AGW	100 ppm 310 mg/m3	2006-01-01	DE TRGS 900

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Peak-limit: excursion factor (category)	1;(l)
Further information	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child

United States of America (USA):

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
n-butyl acetate	123-86-4	ST	200 ppm 950 mg/m3	2013-10-08	
n-butyl acetate	123-86-4	TWA	150 ppm 710 mg/m3	2013-10-08	
n-butyl acetate	123-86-4	TWA	150 ppm 710 mg/m3	1997-08-04	
n-butyl acetate	123-86-4	TWA	150 ppm 710 mg/m3	1989-01-19	
n-butyl acetate	123-86-4	STEL	200 ppm 950 mg/m3	1989-01-19	
n-butyl acetate	123-86-4	PEL	150 ppm 710 mg/m3	2014-11-26	
n-butyl acetate	123-86-4	STEL	200 ppm 950 mg/m3	2014-11-26	
n-butyl acetate	123-86-4	TWA	50 ppm	2017-03-01	
n-butyl acetate	123-86-4	STEL	150 ppm	2017-03-01	
titanium dioxide	13463-67- 7	TWA (total dust)	50 Million particles per cubic foot	2012-07-01	

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titanium dioxide	13463-67- 7	TWA (total dust)	15 mg/m3	2012-07-01
titanium dioxide	13463-67- 7	TWA (respirable fraction)	5 mg/m3	2012-07-01
titanium dioxide	13463-67- 7	TWA (respirable fraction)	15 Million particles per cubic foot	2012-07-01
titanium dioxide	13463-67- 7	PEL (Total dust)	10 mg/m3	2014-11-26
titanium dioxide	13463-67- 7	PEL (respirable dust fraction)	5 mg/m3	2014-11-26
titanium dioxide	13463-67- 7	TWA (total dust)	15 mg/m3	2011-07-01
titanium dioxide	13463-67- 7	TWA (Total dust)	10 mg/m3	1989-01-19
titanium dioxide	13463-67- 7	PEL (Total dust)	10 mg/m3	2014-11-26
titanium dioxide	13463-67- 7	PEL (respirable dust fraction)	5 mg/m3	2014-11-26
titanium dioxide	13463-67- 7	TWA (Respirable particulate matter)	2,5 mg/m3	2022-01-01
aluminium	7429-90-5	TWA (total dust)	50 Million particles per cubic foot	2012-07-01
aluminium	7429-90-5	TWA (Respirable)	5 mg/m3	2013-10-08
aluminium	7429-90-5	TWA (total dust)	15 mg/m3	2012-07-01
aluminium	7429-90-5	TWA (total)	10 mg/m3	2013-10-08
aluminium	7429-90-5	TWA (respirable	5 mg/m3	2012-07-01
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		fraction)		
aluminium	7429-90-5	TWA (respirable fraction)	15 Million particles per cubic foot	2012-07-01
aluminium	7429-90-5	PEL (Total dust)	10 mg/m3	2014-11-26
aluminium	7429-90-5	PEL (respirable dust fraction)	5 mg/m3	2014-11-26
aluminium	7429-90-5	TWA (Respirable particulate matter)	1 mg/m3	2008-01-01
aluminium	7429-90-5	TWA	5 mg/m3	2005-09-01
aluminium	7429-90-5	TWA (Total)	15 mg/m3	1989-01-19
aluminium	7429-90-5	TWA (Respirable fraction)	5 mg/m3	1989-01-19
aluminium	7429-90-5	TWA (total dust)	15 mg/m3	2011-07-01
aluminium	7429-90-5	TWA (respirable fraction)	5 mg/m3	2011-07-01
aluminium	7429-90-5	TWA (Total dust)	15 mg/m3	1989-01-19
aluminium	7429-90-5	TWA (respirable dust fraction)	5 mg/m3	1989-01-19
aluminium	7429-90-5	TWA (welding fumes)	5 mg/m3	2013-10-08
aluminium	7429-90-5	TWA (pyro powders)	5 mg/m3	2013-10-08
aluminium	7429-90-5	TWA (Respirable particulate matter)	1 mg/m3	2013-03-01
aluminium	7429-90-5	TWA (Fumes)	5 mg/m3	1989-01-19
aluminium	7429-90-5	PEL (Welding fumes)	5 mg/m3	2017-10-02
aluminium	7429-90-5	PEL (Pyro powders)	5 mg/m3	2017-10-02

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aluminium	7429-90-5	TWA (powder)	5 mg/m3	1989-01-19
Naphtha (petroleum), hydrotreated heavy	64742-48- 9	TWA	500 ppm 2 000 mg/m3	2007-01-01
Naphtha (petroleum), hydrotreated heavy	64742-48- 9	TWA	400 ppm 1 600 mg/m3	1989-01-19
butan-1-ol	71-36-3	TWA	20 ppm	2013-03-01
butan-1-ol	71-36-3	С	50 ppm 150 mg/m3	2013-10-08
butan-1-ol	71-36-3	TWA	100 ppm 300 mg/m3	1997-08-04
butan-1-ol	71-36-3	С	50 ppm 150 mg/m3	1989-01-19
butan-1-ol	71-36-3	С	50 ppm 150 mg/m3	2014-11-26

8.2 Exposure controls

Personal protective equipment

Eye protection

: Goggles

: Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing problems.

Hand protection

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SILVERSHINE Ceramic White Version 4.0 Revision Date 17.01.2023 P Material : Solvent-resistant gloves (butyl-rubber) Remarks : Take note of the information given by the product

Material	:	Solvent-resistant gloves (butyl-rubber)
Remarks	:	Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). The exact break through time can be obtained from the protective glove producer and this has to be observed. Please observe the instructions regarding permeability and
		breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
		Recommended preventive skin protection
		Skin should be washed after contact.
		The suitability for a specific workplace should be discussed with the producers of the protective gloves.
	:	The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Skin and body protection	:	Impervious clothing
		Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Respiratory protection	:	Use suitable breathing protection if workplace concentration requires.
	:	In the case of vapour formation use a respirator with an approved filter.

Environmental exposure controls

General advice	: The product should not be allow	ved to enter drains, water
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	courses or the soil.	
:	Prevent product from entering drains. Prevent further leakage or spillage if safe to	o do so.

If the product contaminates rivers and lakes or drains inform respective authorities.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: white
Odour	: characteristic
рН	: 6 - 8, 100 %
Freezing point	: No data available
Boiling point/boiling range	: 116 °C
Flash point	: 26 °C
Bulk density	: No data available
Flammability (solid, gas)	: No data available
Auto-flammability	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Density	: No data available
Solubility(ies)	

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Water solubility	: insoluble
Miscibility with water	: immiscible
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Ignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Flow time	: No data available

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions	: Contact with acids and alkalis may release hydrogen.
	No decomposition if stored and applied as directed.
	Vapours may form explosive mixture with air.
10.4 Conditions to avoid	

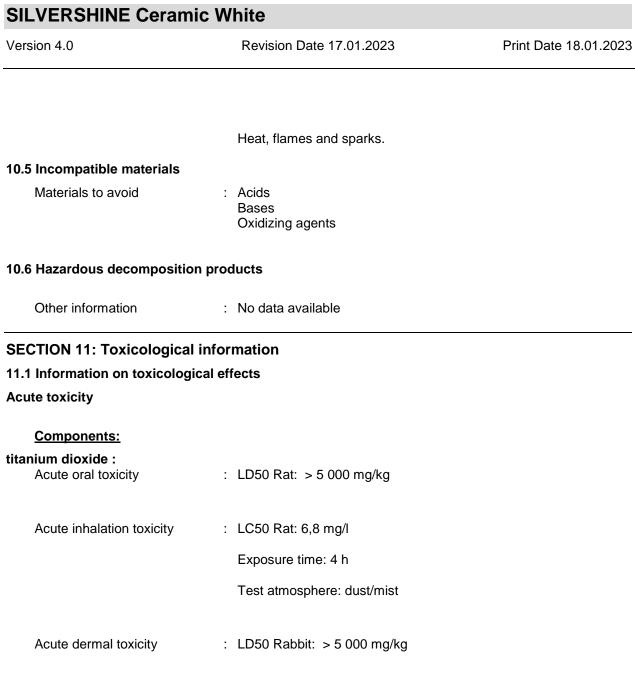
Conditions to avoid

: Do not allow evaporation to dryness.

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Naphtha (petroleum), hydrotreated heavy :

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Acute oral toxicity	: LD50 Rat: > 5 000 mg/kg	
Agute inholation toxisity	LCE0 Date Test streambare vensur	
Acute inhalation toxicity	: LC50 Rat: Test atmosphere: vapour	
	An LC50/inhalation/4h/rat could not no mortality of rats was observed at concentration.	
Acute dermal toxicity	: LD50 Rabbit: >5 000 mg/kg	

Skin corrosion/irritation

Product

May cause skin irritation and/or dermatitis.

Serious eye damage/eye irritation

Product

May cause irreversible eye damage.

Respiratory or skin sensitisation

No data available

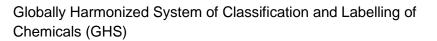
Carcinogenicity

No data available

Toxicity to reproduction/fertility

No data available

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Reprod.Tox./Development/Teratogenicity

No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Aspiration toxicity

No data available

Further information

Product

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting., Concentrations substantially above the TLV value may cause narcotic effects., Solvents may degrease the skin.

SECTION 12: Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

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12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

Product:

Additional ecological	: No data available
information	

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	 Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.
Contaminated packaging	 Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

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SECTION 14: Transport information 14.1 UN number ADR : 1263 TDG : 1263 CFR : 1263 IMDG : 1263 ΙΑΤΑ : 1263 14.2 Proper shipping name ADR : PAINT TDG : PAINT CFR : PAINT IMDG : PAINT ΙΑΤΑ : PAINT 14.3 Transport hazard class ADR : 3 TDG : 3 CFR : 3 IMDG : 3 ΙΑΤΑ : 3 14.4 Packing group ADR Packaging group : 111 Classification Code : F1 Hazard Identification Number : 30 Labels : 3 Page 22 / 25 102000031683

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Tunnel restriction code	:	(D/E)
TDG		
Packaging group	:	III
Labels	:	3
CFR		
Packaging group	:	III
Labels	:	3
IMDG		
Packaging group	:	III
Labels	:	3
ΙΑΤΑ		
Packing instruction (cargo aircraft)	:	366
Packing instruction	:	355
(passenger aircraft)		
Packing instruction (LQ)	:	Y344
Packaging group	:	III
Labels	:	3

14.5 Environmental hazards

14.6 Special precautions for user

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No data available

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SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	: Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	: Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	: Not applicable
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	 Banned and/or restricted (n-butyl acetate) (aluminium powder (stabilised)) (Naphtha (petroleum), hydrotreated heavy; Low boiling point ydrogen treated naphtha) (butan-1-ol) (2-methoxy-1-methylethyl acetate)

15.2 Chemical safety assessment

No data available

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SECTION 16: Other information

Full text of H-Statements	
H225 :	Highly flammable liquid and vapour.
H226 :	Flammable liquid and vapour.
H227 :	Combustible liquid.
H228 :	Flammable solid.
H304 :	May be fatal if swallowed and enters airways.
H315 :	Causes skin irritation.
H316 :	Causes mild skin irritation.
H318 :	Causes serious eye damage.
H319 :	Causes serious eye irritation.
H333 :	May be harmful if inhaled.
H335 :	May cause respiratory irritation.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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