



PAINTS, PRIMERS AND SPECIALISED COATINGS

SAFETY DATA SHEET

367/W489 - SOLAR REFLECTING PAINT - WHITE

According to Regulation (EC) No 1907/2006, Annex II, as amended. Commission Regulation (EU) No 2015/830 of 28 May 2015.

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

1.1. Product identifier

Product name 367/W489 - SOLAR REFLECTING PAINT - WHITE

Product number 367/W489/1

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

Identified uses Paint.

1.3. Details of the supplier of the safety data sheet

Supplier	COO-VAR Lockwood Street HULL UK HU2 0HN +441482328053 (T) +441482219266 (F) info@coo-var.co.uk	TEAL & MACKRILL EU B.V. Zandvoortstraat 69 1976 BN IJMUIDEN THE NETHERLANDS +441482328053 (T) +441482219266 (F) info@coo-var.co.uk
Contact person	Technical Department -, 08.30 - 16.30 hrs Mon - Thurs, 08.30 - 15.00 hrs Fri, as above	
Manufacturer	TEAL & MACKRILL LIMITED LOCKWOOD STREET HULL HU2 0HN +44(0)1482 320194(T) +44(0)1482 219266(F) info@teamac.co.uk	

1.4. Emergency telephone number

Emergency telephone +44 (0) 1482 328053 Coo-Var (08.30 - 16.30 hrs Mon - Thurs, 08.30 - 15.00 hrs Fri)

SDS No. 10644

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards Not Classified

2.2. Label elements

Hazard statements NC Not Classified

367/W489 - SOLAR REFLECTING PAINT - WHITE

Precautionary statements	P101 If medical advice is needed, have product container or label at hand.
	P102 Keep out of reach of children.
	P261 Avoid breathing vapour/ spray.
	P271 Use only outdoors or in a well-ventilated area.
	P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
	P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Supplemental label information	P501 Dispose of contents/ container in accordance with national regulations.
	EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
	Contains a biocidal product: C(M)IT/MIT (3:1) and BIT
Supplementary precautionary statements	P403+P235 Store in a well-ventilated place. Keep cool.

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Calcium Magnesium Carbonate			10-30%
CAS number: 16389-88-1	EC number: 240-440-2		
Classification	Classification (67/548/EEC or 1999/45/EC)		
Not Classified	-		
Calcium Carbonate			10-30%
CAS number: 1317-65-3	EC number: 215-279-6		
Classification	Classification (67/548/EEC or 1999/45/EC)		
Not Classified	-		
Titanium Dioxide			5-10%
CAS number: 13463-67-7	EC number: 236-675-5	REACH registration number: 01-2119489379-17-xxxx	
Classification	Classification (67/548/EEC or 1999/45/EC)		
Carc. 2 - H351	-		
Diatomaceous Earth			1-5%
CAS number: 61790-53-2	EC number: 310-127-6		
Classification	Classification (67/548/EEC or 1999/45/EC)		
Not Classified	-		

367/W489 - SOLAR REFLECTING PAINT - WHITE

1,2-BENZISOTHIAZOL-3(2H)-ONE		<0.01%
CAS number: 2634-33-5	EC number: 220-120-9	REACH registration number: 01-2120761540-60-XXXX
M factor (Acute) = 1		
Classification Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Aquatic Acute 1 - H400	Classification (67/548/EEC or 1999/45/EC) Xn;R22 R43 Xi;R38,R41 N;R50	
Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)		
CAS number: 55965-84-9		<0.0014%
M factor (Acute) = 100	M factor (Chronic) = 100	
Classification Acute Tox. 3 - H301 Acute Tox. 2 - H310 Acute Tox. 2 - H330 Skin Corr. 1 - H314 Eye Dam. 1 - H318 Skin Sens. 1B - H317 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410		

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Composition comments The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1% or more of titanium dioxide which is in the form of or incorporated into particles with an aerodynamic diameter of less than or equal to 10µm.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Never give anything by mouth to an unconscious person.
Inhalation	Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues. Place unconscious person on their side in the recovery position and ensure breathing can take place.
Ingestion	DO NOT induce vomiting. Get medical attention immediately. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
Skin contact	Remove affected person from source of contamination. Remove contaminated clothing immediately and wash skin with soap and water.
Eye contact	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.

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

367/W489 - SOLAR REFLECTING PAINT - WHITE

General information Get medical attention promptly if symptoms occur after washing.

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

Notes for the doctor No specific recommendations.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with foam, carbon dioxide, dry powder or water fog. Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards The product is non-combustible. Toxic and corrosive gases or vapours.

5.3. Advice for firefighters

Protective actions during firefighting Avoid breathing fire gases or vapours. Avoid the spillage or runoff entering drains, sewers or watercourses. Cool containers exposed to flames with water until well after the fire is out.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions Avoid discharge into drains or watercourses or onto the ground. Contain spillage with sand, earth or other suitable non-combustible material. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Avoid the spillage or runoff entering drains, sewers or watercourses. Absorb in vermiculite, dry sand or earth and place into containers. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Keep away from heat, sparks and open flame. Avoid spilling. Avoid contact with skin and eyes. Avoid inhalation of vapours and spray mists. Do not eat, drink or smoke when using the product. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. The Manual Handling Operations Regulations may apply to the handling of containers of this product. To assist employers, the following method of calculating the weight for any pack size is given. Take the pack size volume in litres and multiply this figure by the specific gravity value given in section 9. This will give the net weight of the coating in kilograms. Allowance will then have to be made for the immediate packaging to give an approximate gross weight.

7.2. Conditions for safe storage, including any incompatibilities

367/W489 - SOLAR REFLECTING PAINT - WHITE

Storage precautions Store in closed original container at temperatures between 5°C and 25°C. Keep away from heat, sparks and open flame. Protect from freezing and direct sunlight. Keep container tightly closed. Keep containers upright. Store away from the following materials: Oxidising materials. Alkalis. Acids.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

Usage description Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

Calcium Magnesium Carbonate

Long-term exposure limit (8-hour TWA): WEL 4 mg/m³ resp.dust

Calcium Carbonate

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ inhalable dust

Long-term exposure limit (8-hour TWA): WEL 4 mg/m³ respirable dust

Titanium Dioxide

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ inhalable dust

Long-term exposure limit (8-hour TWA): WEL 4 mg/m³ respirable dust

Diatomaceous Earth

Long-term exposure limit (8-hour TWA): WEL 1.2 mg/m³ respirable dust

Cellulose, 2 - hydroxyethyl ether, retarded

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ total dust

Short-term exposure limit (15-minute): WEL 4 mg/m³ resp.dust

ZINC PYRITHIONE

Long-term exposure limit (8-hour TWA): WEL 0.35 mg/m³

WEL = Workplace Exposure Limit.

Titanium Dioxide (CAS: 13463-67-7)

DNEL Industry - Inhalation; Long term local effects: 10 mg/m³
Consumer - Oral; Long term systemic effects: 700 mg/kg/day

PNEC - Fresh water; 0.184 mg/l
- marine water; 0.0184 mg/l
- Sediment (Freshwater); >=1000 mg/kg
- Sediment (Marinewater); >=100 mg/kg
- Soil; 100 mg/kg
- STP; 100 mg/kg

2,2,4 Trimethyl 1,3 Pentanediol Monoisobutyrate (CAS: 25265-77-4)

DNEL Workers - Dermal; Long term systemic effects: 13.9 mg/kg/day
Workers - Inhalation; Long term systemic effects: 49 mg/m³
Consumer - Oral; Long term systemic effects: 8.33 mg/kg/day
Consumer - Dermal; Long term systemic effects: 8.33 mg/kg/day
Consumer - Inhalation; Long term systemic effects: 14.5 mg/m³

367/W489 - SOLAR REFLECTING PAINT - WHITE

PNEC	- Fresh water; 0.015 mg/l
	- Sediment (Freshwater); 0.78 mg/kg
	- STP; 7.5 mg/l
	- marine water; 0.002 mg/l
	- Sediment (Marinewater); 0.078 mg/kg
	- Soil; 0.147 mg/kg

Reaction mass of Diethylene glycol dibenzoate, Dipropylene glycol dibenzoate and Trithethylene glycol dibenzoate

DNEL	Workers - Dermal; Short term systemic effects: 160 mg/kg
	Workers - Inhalation; Short term systemic effects: 35.08 mg/m ³
	Workers - Dermal; Long term systemic effects: 1.7 mg/kg
	Workers - Inhalation; Long term systemic effects: 5.8 mg/m ³
	General population - Dermal; Short term systemic effects: 8 mg/kg
	General population - Inhalation; Short term systemic effects: 8.7 mg/m ³
	General population - Oral; Short term systemic effects: 80 mg/kg
	General population - Dermal; Long term systemic effects: 0.8 mg/kg
	General population - Inhalation; Long term systemic effects: 1.4 mg/m ³
	General population - Oral; Long term systemic effects: 0.8 mg/kg

PNEC	- Fresh water; 0.0029 mg/l
	- marine water; 0.00029 mg/l
	- Intermittent release; 0.029 mg/l
	- Sediment (Freshwater); 0.0263 mg/kg
	- Sediment (Marinewater); 0.0263 mg/kg
	- Soil; 1 mg/kg
	- STP; 10 mg/l
	- ;

Sodium Benzoate (CAS: 532-32-1)

DNEL	Industry - Dermal; Long term systemic effects: 62.5 mg/kg/day
	Consumer - Dermal; Long term systemic effects: 31.25 mg/kg
	Consumer - Oral; Long term systemic effects: 16.6 mg/kg
	Workers - Inhalation; Long term systemic effects: 3 mg/m ³
	Workers - Inhalation; Long term local effects: 0.1 mg/m ³
	Consumer - Inhalation; Long term systemic effects: 1.5 mg/m ³
	Consumer - Inhalation; Long term local effects: 0.06 mg/m ³

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours.

Eye/face protection

Wear approved, tight fitting safety glasses where splashing is probable.

367/W489 - SOLAR REFLECTING PAINT - WHITE

Hand protection	To protect hands from chemicals, gloves should comply with European Standards EN388 and 374. As a general principle, exposure should be managed by means other than the provision of protective gloves. Manufacturers' performance data suggest that the optimum glove for use should be: Neoprene, nitrile, polyethylene or PVC. Barrier cream applied before work may make it easier to clean the skin after exposure, but does not prevent absorption through the skin. It should be noted that liquid may penetrate the gloves. Frequent changes are recommended. The most suitable glove should be chosen in consultation with the glove supplier/manufacture, who can provide information about the breakthrough time of the glove material.
Other skin and body protection	Wear appropriate clothing to prevent reasonably probable skin contact.
Hygiene measures	No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products.
Respiratory protection	Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m ³ . In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment with particle filter (type P2).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Granules. Viscous liquid.
Colour	White / off-white.
Odour	Mild.
Odour threshold	Not determined.
Melting point	Not applicable.
Initial boiling point and range	Not determined.
Flash point	Not applicable.
Evaporation rate	Not determined.
Evaporation factor	Not determined.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	Not applicable.
Vapour pressure	Not determined.
Vapour density	Not determined.
Relative density	1.3 - 1.4 @ @ 20 C°C
Bulk density	Not applicable.
Solubility(ies)	Miscible with water
Auto-ignition temperature	Not applicable.
Viscosity	6.0 (Rotothinner) P @ 25 C°C
Explosive properties	Not applicable.
Explosive under the influence of a flame	Not considered to be explosive.

367/W489 - SOLAR REFLECTING PAINT - WHITE

Oxidising properties The mixture itself has not been tested but none of the ingredient substances meet the criteria for classification as oxidising.

9.2. Other information

Volatile organic compound EU: (cat A/i): 140 g/l 2010. This product contains a maximum VOC content of 140 g/l.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Not determined.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition. Avoid contact with the following materials: Acids. Oxidising agents.

10.5. Incompatible materials

Materials to avoid Strong alkalis. Strong acids. Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects No data recorded.

General information No specific health hazards known.

Inhalation No specific health hazards known.

Ingestion No harmful effects expected from quantities likely to be ingested by accident.

Skin contact Prolonged contact may cause dryness of the skin.

Eye contact May cause temporary eye irritation.

Acute and chronic health hazards This product has low toxicity. Only large quantities are likely to have adverse effects on human health.

Route of exposure Skin absorption. Ingestion. Skin and/or eye contact.

Medical considerations Skin disorders and allergies.

Toxicological information on ingredients.

1,2-BENZISOTHIAZOL-3(2H)-ONE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 1,193.0

367/W489 - SOLAR REFLECTING PAINT - WHITE

Species	Rat
ATE oral (mg/kg)	1,193.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg)	4,115.0
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Species	Rat
ATE dermal (mg/kg)	4,115.0

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)**Acute toxicity - oral**

ATE oral (mg/kg)	100.0
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Acute toxicity - dermal

ATE dermal (mg/kg)	50.0
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Acute toxicity - inhalation

ATE inhalation (vapours mg/l)	0.5
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SECTION 12: Ecological information

Ecotoxicity There are no data on the ecotoxicity of this product.

12.1. Toxicity**Ecological information on ingredients.****BRONOPOL (INN)****Acute aquatic toxicity**

LE(C)₅₀	0.01 < L(E)C ₅₀ ≤ 0.1
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M factor (Acute)	10
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Chronic aquatic toxicity

M factor (Chronic)	1
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1,2-BENZISOTHIAZOL-3(2H)-ONE**Acute aquatic toxicity**

LE(C)₅₀	0.1 < L(E)C ₅₀ ≤ 1
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M factor (Acute)	1
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Acute toxicity - fish	LC ₅₀ , 96 hours: 2.18 mg/l, Oncorhynchus mykiss (Rainbow trout)
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Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 2.94 mg/l, Daphnia magna
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Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: 0.11 mg/l, Pseudokirchneriella subcapitata
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Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)**Acute aquatic toxicity**

367/W489 - SOLAR REFLECTING PAINT - WHITE

LE(C)₅₀ 0.001 < L(E)C₅₀ ≤ 0.01

M factor (Acute) 100

Chronic aquatic toxicity

M factor (Chronic) 100

12.2. Persistence and degradability

Persistence and degradability The product is expected to be biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

12.4. Mobility in soil

Mobility The product contains substances, which are water soluble and may spread in water systems.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects Not determined.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Avoid the spillage or runoff entering drains, sewers or watercourses. Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Disposal methods Avoid the spillage or runoff entering drains, sewers or watercourses.

Waste class When this coating, in its liquid state, as supplied, becomes a waste, it is categorised as non-hazardous waste, with code 08 01 12 (WATER BASED LIQUID WASTE). Part used containers, not drained and/or rigorously scraped out and containing dry residues of the supplied coating, are categorised as non-hazardous waste, with code 08 01 12 (WATER BASED LIQUID WASTE). If mixed with other wastes, the above waste code may not be applicable. Used containers, drained and/or rigorously scraped out and containing dry residues of the supplied coating, are categorised as non-hazardous waste, with code 15 01 02 (plastic packaging) or 15 01 04 (metal packaging).

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packing group

Not applicable.

367/W489 - SOLAR REFLECTING PAINT - WHITE

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

No information required.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78
and the IBC Code

SECTION 15: Regulatory information

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

National regulations	The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended).
EU legislation	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
Guidance	Workplace Exposure Limits EH40.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet	ATE: Acute Toxicity Estimate. ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. CAS: Chemical Abstracts Service. DNEL: Derived No Effect Level. GHS: Globally Harmonized System. ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air. IMDG: International Maritime Dangerous Goods. LD ₅₀ : Lethal Dose to 50% of a test population (Median Lethal Dose). PBT: Persistent, Bioaccumulative and Toxic substance. REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006. PNEC: Predicted No Effect Concentration. RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail. SVHC: Substances of Very High Concern. vPvB: Very Persistent and Very Bioaccumulative. cATpE: Converted Acute Toxicity Point Estimate. EC ₅₀ : 50% of maximal Effective Concentration.
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367/W489 - SOLAR REFLECTING PAINT - WHITE

Classification abbreviations and acronyms	Aquatic Acute = Hazardous to the aquatic environment (acute) Aquatic Chronic = Hazardous to the aquatic environment (chronic) Asp. Tox. = Aspiration hazard Carc. = Carcinogenicity Eye Dam. = Serious eye damage Eye Irrit. = Eye irritation Resp. Sens. = Respiratory sensitisation Skin Irrit. = Skin irritation Skin Sens. = Skin sensitisation STOT SE = Specific target organ toxicity-single exposure STOT RE = Specific target organ toxicity-repeated exposure
Revision comments	Issued in new format for Reach compliance in accordance with EC 1272/2008 Issued in accordance with Annex II to REACH, as amended by Commission Regulation (EU) No. 2015/830 Revision of in can biocides information. Classification of Titanium Dioxide updated in line with the 14th ATP to CLP.
Issued by	Technical Dept. (N.O.)
Revision date	01/07/2021
Revision	9.0
Supersedes date	12/01/2021
SDS number	10644
SDS status	Approved.
Hazard statements in full	H301 Toxic if swallowed. H302 Harmful if swallowed. H310 Fatal in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H330 Fatal if inhaled. H351 Suspected of causing cancer. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.
Signature	Initials _____

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.