

SAFETY DATA SHEET

SP350 TUK

In accordance with the Standard for Classification and Labeling of Chemical Substance and Safety Data Sheet, Article 10 Paragraph 1

	cal product and company identification
A. Product name	: SP350 TUK
SDS code	: 21350000K
B. <u>Relevant identified uses</u>	of the substance or mixture and uses advised against
	Identified uses
Paint. Professional use Indus	trial use
	Uses advised against
All other uses	
Product use	: Solvent borne coating for interior and exterior use.
C. Supplier's details	
MAPAERO SAS 10, Avenue de la Rij 09103 PAMIERS Ce France	
e-mail address of person responsible for this SDS	: PSRA_PAMIERS@akzonobel.com
Emergency telephone number (with hours of operation)	: +33 (0)5 34 01 34 01 +33 (0)5 61 60 23 30

Section 2. Hazards identification

A. Hazard classification	 FLAMMABLE LIQUIDS - Category 3 CORROSIVE TO METALS - Category 1 SKIN CORROSION/IRRITATION - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SKIN SENSITIZATION - Category 1 GERM CELL MUTAGENICITY - Category 2 CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 AQUATIC HAZARD (LONG-TERM) - Category 2 This product is classified in accordance with the Industrial Safety and Health Act and the Chemical Control Act.

B. GHS label elements, including precautionary statements

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Section 2. Hazards identification

Symbol	
Signal word	: Danger
Hazard statements	 H226 - Flammable liquid and vapor. H290 - May be corrosive to metals. H314 - Causes severe skin burns and eye damage. H317 - May cause an allergic skin reaction. H336 - May cause drowsiness or dizziness. H341 - Suspected of causing genetic defects. H351 - Suspected of causing cancer. H360 - May damage fertility or the unborn child. H411 - Toxic to aquatic life with long lasting effects.
Precautionary statement	<u>s</u>
Prevention	 P201 - Obtain special instructions before use. P280 - Wear protective gloves, protective clothing and eye or face protection. P210 - Keep away from heat, sparks and hot surfaces. No smoking. P241 - Use explosion-proof electrical, ventilating or lighting equipment. P242 - Use non-sparking tools. P243 - Take action to prevent static discharges. P234 - Keep only in original packaging. P273 - Avoid release to the environment. P261 - Avoid breathing vapor.
Response	 P391 - Collect spillage. P390 - Absorb spillage to prevent material damage. P308 + P313 - IF exposed or concerned: Get medical advice or attention. P304 + P310 - IF INHALED: Immediately call a POISON CENTER or doctor. P301 + P310 + P330 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. P303 + P361 + P353 + P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. P363 - Wash contaminated clothing before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of water. P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention. P305 + P351 + P338 + P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
Storage	: P403 + P233 - Store in a well-ventilated place. Keep container tightly closed. P403 + P235 - Keep cool.
Disposal	 P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards which do not result in	: None known.

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classification
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C.

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture



Section 3. Composition/information on ingredients

F	I	
Ingredient name	Identifiers	%
Phenol, polymer with formaldehyde, glycidyl ether	CAS: 28064-14-4	≥20 - <30
n-butyl acetate	CAS: 123-86-4	≥20 - <25
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	CAS: 2530-83-8	≥10 - <20
1,3-Propanediol, 2-ethyl-2-(hydroxymethyl)-, polymer with 2-(chloromethyl)	CAS: 30499-70-8	<10
oxirane		
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-	CAS: 113930-69-1	<10
2,3-epoxypropane, reaction products with m-phenylenebis(methylamine)		
Talc , not containing asbestiform fibres	CAS: 14807-96-6	<10
titanium dioxide	CAS: 13463-67-7	≥0.1 - <5
zinc oxide	CAS: 1314-13-2	≥1 - <5
3-aminomethyl-3,5,5-trimethylcyclohexylamine	CAS: 2855-13-2	<10
iron hydroxide oxide	CAS: 20344-49-4	≥1 - <5
lead monoxide	CAS: 1317-36-8	<0.1
cadmium oxide	CAS: 1306-19-0	<0.1

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

:21-10-2022

Section 4. First aid measures

Date of previous issue

А.	Eye contact	flush eyes with plenty of v Check for and remove ar	nediately. Call a poison center or physician. Immediat water, occasionally lifting the upper and lower eyelids. by contact lenses. Continue to rinse for at least 10 minu treated promptly by a physician.	•
В.	Skin contact	plenty of soap and water. contaminated clothing the Continue to rinse for at le by a physician. In the eve	nediately. Call a poison center or physician. Wash wit Remove contaminated clothing and shoes. Wash proughly with water before removing it, or wear gloves. ast 10 minutes. Chemical burns must be treated prom ent of any complaints or symptoms, avoid further expos se. Clean shoes thoroughly before reuse.	nptly
C.	Inhalation	victim to fresh air and kee suspected that fumes are or self-contained breathir respiratory arrest occurs, It may be dangerous to th resuscitation. If unconsc immediately. Maintain ar belt or waistband. In cas	nediately. Call a poison center or physician. Remove ep at rest in a position comfortable for breathing. If it is a still present, the rescuer should wear an appropriate n ing apparatus. If not breathing, if breathing is irregular of provide artificial respiration or oxygen by trained perso he person providing aid to give mouth-to-mouth ious, place in recovery position and get medical attention in open airway. Loosen tight clothing such as a collar, ti e of inhalation of decomposition products in a fire, ed. The exposed person may need to be kept under 18 hours.	s mask or if onnel. on
D.	Ingestion	mouth with water. Remo rest in a position comforta exposed person is consc exposed person feels sic unless directed to do so t be kept low so that vomit promptly by a physician. If unconscious, place in r	nediately. Call a poison center or physician. Wash our ve dentures if any. Remove victim to fresh air and kee able for breathing. If material has been swallowed and ious, give small quantities of water to drink. Stop if the k as vomiting may be dangerous. Do not induce vomition by medical personnel. If vomiting occurs, the head sho does not enter the lungs. Chemical burns must be treat Never give anything by mouth to an unconscious person ecovery position and get medical attention immediately Loosen tight clothing such as a collar, tie, belt or	ep at I the ting ould eated on.
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Section 4. First aid measures

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Ε.	Notes to physician	:	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	Specific treatments	:	No specific treatment.
	Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Α.	A. <u>Extinguishing media</u>		
	Suitable extinguishing media	:	Use dry chemical, CO_2 , water spray (fog) or foam.
	Unsuitable extinguishing media	:	Do not use water jet.
В.	Specific hazards arising from the chemical	:	Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
	Hazardous thermal decomposition products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides halogenated compounds metal oxide/oxides
C.	Special protective equipment for fire- fighters	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Special precautions for fire-fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Section 6. Accidental release measures

A. Personal precautions, protective equipment and emergency procedures
 No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

B. Environmental precautions
 Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

C. Methods and materials for containment and cleaning up

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Section 6. Accidental release measures

Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Absorb spillage to prevent material damage. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Absorb spillage to prevent material damage. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

A. <u>Precautions for safe handling</u>

	Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container. Absorb spillage to prevent material damage.
	Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
В.	Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store in a corrosion resistant container with a resistant inner liner. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep away from metals. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

A. <u>Control parameters</u> Occupational exposure limits



Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits
n-butyl acetate	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	STEL: 200 ppm 15 minutes.
	TWA: 150 ppm 8 hours.
titanium dioxide	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	TWA: 10 mg/m ³ 8 hours. Form: total dust
	with less than 1% of free SiO2
lead monoxide	Ministry of Employment and Labor
	(Republic of Korea, 1/2020). Notes: as Pb
	TWA: 0.05 mg/m³, (as Pb) 8 hours. Form:
	Dust and fumes
cadmium oxide	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	TWA: 0.002 mg/m³, (as Cd) 8 hours. Form:
	Respirable fraction
	TWA: 0.01 mg/m³, (as Cd) 8 hours.

В.	Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

C. Personal protective equipment

Respiratory protection	:	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
Eye protection	:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
Hand protection		Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.



Section 8. Exposure controls/personal protection

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Hygiene measures
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: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Section 9. Physical and chemical properties

Α.	<u>Appearance</u>		
	Physical state	:	Liquid.
	Color	:	Brown.
В.	Odor	:	Characteristic.
C.	Odor threshold	:	Not available.
D.	рН	:	Not available.
Ε.	Melting/freezing point	:	Not available.
F.	Boiling point/boiling range	:	Not available.
G.	Flash point	:	Closed cup: 24°C (75.2°F)
	Fire point	:	Not available.
Н.	Evaporation rate	:	Not available.
I.	Flammability (solid, gas)	:	Not available.
J.	Lower and upper explosive (flammable) limits	:	Greatest known range: Lower: 1.4% Upper: 7.6% (n-butyl acetate)
Κ.	Vapor pressure	:	Not available.
L.	Solubility	:	Insoluble in the following materials: cold water.
	Solubility in water	:	Not available.
М.	Vapor density	:	Highest known value: 4 (Air = 1) (1,3-Propanediol, 2-ethyl-2-(hydroxymethyl)-, polymer with 2-(chloromethyl)oxirane). Weighted average: 3.23 (Air = 1)
	Density		1.24 g/cm ³
0.	Partition coefficient: n- octanol/water	:	Not available.
Ρ.	Auto-ignition temperature	:	Not available.
Q.	Decomposition temperature	:	Not available.
R.	Viscosity	:	Kinematic (room temperature): 4.44 cm²/s (444 cSt) Kinematic (40°C (104°F)): 1.01 cm²/s (101 cSt)
	Flow time (ISO 2431)	:	Not available.
S.	Molecular weight	:	Not applicable.

Section 10. Stability and reactivity

Α.	Chemical stability	:	The product is stable.
	Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
B.	Conditions to avoid	:	Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

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Section 10. Stability and reactivity

C.	Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials metals
P	Herendeue	Linder normal conditions of storage and use hereadous decomposition products

D. Hazardous : Under normal conditions of storage and use, hazardous decomposition products decomposition products should not be produced.

Section 11. Toxicological information

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A. Information on the likely routes of exposure			Not available.				
	Potential acute health effe	ect	ects				
	Inhalation	:	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.				
	Ingestion	:	Can cause central nervous system (CNS) depression.				
	Skin contact	:	Causes severe burns. May cause an allergic skin reaction.				
	Eye contact	:	Causes serious eye damage.				
	Over-exposure signs/sym	<u>ipt</u>	<u>oms</u>				
	Inhalation	:	Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations				
	Ingestion	:	Adverse symptoms may include the following: stomach pains reduced fetal weight increase in fetal deaths skeletal malformations				
	Skin contact	:	Adverse symptoms may include the following: pain or irritation redness blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations				
	Eye contact	:	Adverse symptoms may include the following: pain watering redness				

B. Health hazards

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
n-butyl acetate	LC50 Inhalation Gas.	Rat	390 ppm	4 hours
-	LC50 Inhalation Vapor	Mouse	6 g/m ³	2 hours
	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Intraperitoneal	Mouse	1230 mg/kg	-
	LD50 Oral	Guinea pig	4700 mg/kg	-
	LD50 Oral	Mouse	6 g/kg	-
	LD50 Oral	Rabbit	3200 mg/kg	-
	LD50 Oral	Rat	10768 mg/kg	-
[3-(2,3-epoxypropoxy)	LD50 Dermal	Rabbit	3970 uL/kg	-
propyl]trimethoxysilane				
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Section 11. Toxicological information

	LD50 Oral	Rat	7.01 g/kg	-
	LD50 Oral	Rat	22600 uL/kg	-
zinc oxide	LD50 Intraperitoneal	Rat	240 mg/kg	-
	LD50 Oral	Mouse	7950 mg/kg	-
lead monoxide	LD50 Intraperitoneal	Mouse	217 mg/kg	-
cadmium oxide	LC50 Inhalation Vapor	Guinea pig	3500 mg/m ³	10 minutes
	LC50 Inhalation Vapor	Mouse	250 mg/m ³	2 hours
	LC50 Inhalation Vapor	Rabbit	2500 mg/m ³	10 minutes
	LC50 Inhalation Vapor	Rat	45 mg/m ³	1 hours
	LD50 Intraperitoneal	Rat	12 mg/kg	-
	LD50 Intravenous	Rat	25 mg/kg	-
	LD50 Oral	Mouse	67 mg/kg	-
	LD50 Oral	Rat	72 mg/kg	-
	LD50 Subcutaneous	Mouse	94 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
n-butyl acetate	Eyes - Moderate irritant	Rabbit	-	100 mg	-
-	Skin - Moderate irritant	Rabbit	-	24 hours	-
				500 mg	
[3-(2,3-epoxypropoxy) propyl]trimethoxysilane	Eyes - Mild irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
zinc oxide	Eyes - Mild irritant	Rabbit	-	24 hours	-
				500 mg	
	Skin - Mild irritant	Rabbit	-	24 hours	-
				500 mg	
lead monoxide	Skin - Mild irritant	Rabbit	-	24 hours 100 mg	-

Sensitization

Not available.

CMR - ISHA Article 42 Occupational Exposure Limits

Product/ingredient name	Identifiers	Classification
titanium dioxide lead monoxide	CAS: 1317-36-8	CARCINOGENICITY - Category 2 CARCINOGENICITY - Category 1B TOXIC TO REPRODUCTION - Category 1A
cadmium oxide	CAS: 1306-19-0	GERM ĆELL MUTAGENICITY - Category 2 CARCINOGENICITY - Category 1A TOXIC TO REPRODUCTION - Category 2

Mutagenicity

Product/ingredient name	Test	Experiment	Result
cadmium oxide	-	Subject: Mammalian-Animal	Positive

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP	ACGIH
Talc , not containing asbestiform fibres	-	3	-	A4
titanium dioxide	-	2B	-	A4
lead monoxide	-	2A	Reasonably anticipated to be a human carcinogen.	A3
cadmium oxide	+	1	Known to be a human carcinogen.	A2
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Section 11. Toxicological information

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
n-butyl acetate	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	0,	Route of exposure	Target organs
lead monoxide cadmium oxide	Category 2 Category 1	-	-

Aspiration hazard

Not available.

Potential chronic health effects

Chronic toxicity

Not available.

General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: Suspected of causing genetic defects.
Reproductive toxicity	: May damage fertility or the unborn child.

Section 12. Ecological information

A. Ecotoxicity

Product/ingredient name	Result	Species	Exposure
n-butyl acetate	Acute LC50 32 mg/l Marine water	Crustaceans - Artemia salina	48 hours
	Acute LC50 100000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute LC50 18000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 185000 µg/l Marine water	Fish - Menidia beryllina	96 hours
	Acute LC50 62000 µg/l Fresh water	Fish - Danio rerio	96 hours
titanium dioxide	Acute EC50 19.3 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute EC50 27.8 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute EC50 35.306 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 3 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 13.4 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 11 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 3.6 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 15.9 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 6.5 mg/l Fresh water	Daphnia - Daphnia pulex - Neonate	48 hours
	Acute LC50 13 mg/l Fresh water	Daphnia - Daphnia pulex -	48 hours
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Section 12. Ecological information

Acute LC50 >1000 mg/l Fresh water Acute LC50 >100000 µg/l Marine waterSish - Pinnephales promelas Fish - Fundulus heterocitius96 hours 96 hourszinc oxideAcute EC50 1 mg/l Fresh water Acute EC50 0.622 mg/l Fresh water Acute LC50 1.25 mg/l Fresh water Acute LC50 125 mg/l Fresh water Acute LC50 125 mg/l Fresh water Acute LC50 246000 µg/l Fresh water Acute LC50 246000 µg/l Fresh water Acute LC50 1.25 mg/l Fresh water Acute LC50 246000 µg/l Fresh water Acute LC50 1.1 ppm Fresh water Acute LC50 1.25 mg/l Fresh water Acute LC50 246000 µg/l Fresh water Acute LC50 1.1 ppm Fresh water Acute LC50 1.2 pmg/l Fresh water Acute LC50 3.86000 µg/l Fresh water Acute LC50 3262000 µg/l Fresh water Acute LC50 362000 µg/l Fresh water Acute LC50 386300 µg/l Fresh water Acute LC50 396300 µg/l Fresh water Acute LC50 396300 µg/l Fre			Neonate	
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B. Persistence and degradability

Not available.

C. Bioaccumulative potential



Section 12. Ecological information

Product/ingredient name	LogPow	BCF	Potential	
p -butyl acetate	2.3	-	low	
4,4'-Isopropylidenediphenol,	-	4.77	low	
oligomeric reaction				
products with 1-chloro-				
2,3-epoxypropane, reaction				
products with m-				
phenylenebis(methylamine)				
zinc oxide	-	28960	high	
3-aminomethyl-	0.99	-	low	
3,5,5-trimethylcyclohexylamine				
cadmium oxide	-	1345	high	

D. Mobility in soil

- Soil/water partition : Not available. coefficient (Koc)
- E. Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

- A. Disposal methods
 The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
 B. Disposal precautions
 This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product
 - Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

UN IMDG IATA A. UN number UN3470 UN3470 UN3470 B. UN proper shipping name PAINT, CORROSIVE, FLAMMABLE PAINT, CORROSIVE, FLAMMABLE PAINT, CORROSIVE, FLAMMABLE C. Transport hazard class(es) 8 (3) 8 (3) 8 (3) D. Packing group II II II D. Packing group II II II		-		
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hazard class(es) Image: Constraint of the system of th				
Date of issue/Date of revision : 1-11-2022 Version : 2.01				
	D. Packing group	II		
Date of previous issue : 21-10-2022 12/15 AKZON				OI AkzoNobel

SP350 TUK Section 14. Transport information E. Environmental Yes. The environmentally Marine Pollutant(s): Yes. The environmentally hazardous substance mark is hazards Phenol, polymer with hazardous substance mark is not required. formaldehyde, glycidyl ether, not required. 1,3-Propanediol, 2-ethyl-2-(hydroxymethyl)-, polymer with 2-(chloromethyl)oxirane **Additional information** IMDG : Emergency schedules F-E, S-C The marine pollutant mark is not required when transported in sizes of ≤ 5 L or ≤ 5 kg. ΙΑΤΑ : The environmentally hazardous substance mark may appear if required by other transportation regulations. F. Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in user the event of an accident or spillage. Transport in bulk according : Not available.

to IMO instruments

Section 15. Regulatory information

Α.	Regulation according to I	Sł	
	ISHA article 117 (Harmful substances prohibited from manufacture)	:	None of the components are listed.
	ISHA article 118 (Harmful substances requiring permission)	:	None of the components are listed.
	Article 2 of Youth Protection Act on Substances Hazardous to Youth	:	Not applicable.
	Exposure Limits of Chem	ica	al Substances and Physical Factors
	The following components n-butyl acetate titanium dioxide lead monoxide cadmium oxide	s h	ave an OEL:
	ISHA Enforcement Regs Annex 19 (Exposure standards established for harmful factors)	:	The following components are listed: Lead and its inorganic compounds, Cadmium and its compounds
	ISHA Enforcement Regs Annex 21 (Harmful factors subject to Work Environment Measurement)	:	The following components are listed: n-butyl acetate, talc; soapstone, titanium dioxide, zinc oxide, iron oxide
	ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check- up)	:	The following components are listed: Zinc oxide, Iron oxide



Section 15. Regulatory information

	Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)	Phe following components are listed: n-butyl acetate, titanium dioxide, zinc and its compounds, iron and its compounds
В.	Regulation according to	Chemicals Control Act
	CCA Article 11 (TRI)	: The following components are listed: Zinc and its compounds
	CCA Article 18 Prohibited (K-Reach Article 27)	: None of the components are listed.
	CCA Article 19 Subject to authorization (K- Reach Article 25)	: None of the components are listed.
	CCA Article 20 Toxic Chemicals (K-Reach Article 20)	: Not applicable
	CCA Article 20 Restricted (K-Reach Article 27)	: None of the components are listed.
	CCA Article 39 (Accident Precaution Chemicals)	: None of the components are listed.
	Existing Chemical Substances Subject to Registration	: The following components are listed: Quartz, Zinc oxide, Lead monoxide, Cadimium oxide
C.	Dangerous Materials Safety Management Act	 Class: Class 4 - Flammable Liquid Item: 4. Class 2 petroleums - Water-insoluble liquid Threshold: 1000 L Danger category: III Signal word: Contact with sources of ignition prohibited
D.	Wastes regulation	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
E.	Regulation according to a International regulations Chemical Weapon Conv Not listed.	other foreign laws
	Montreal Protocol Not listed.	
	Stockholm Convention of Not listed.	on Persistent Organic Pollutants
	Rotterdam Convention of Not listed.	on Prior Informed Consent (PIC)
	UNECE Aarhus Protocol Not listed.	on POPs and Heavy Metals



Section 16. Other information

A. References	: Not available.
B. Date of issue/Date of revision	: 1 November 2022
C. Version	: 2.01
Unique ID	:
Date of printing	: 1 November 2022

D. Other

Indicates information that has changed from previously issued version.

Key to abbreviations	 ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations
N N N	

Notice to reader

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IMPORTANT NOTE The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advice given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.

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