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November 24, 2017

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SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830 - United Kingdom (UK)

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

1.1 Product identifier	
Product name	: SNT48:TRANSPARENT WHITE:DK03
Product code	: SNT48
Trade name	: SOLARFLEX® INTEGRA
Date of issue/ Date of revision	: 16 October 2017
Version	: 0.08

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

Identified uses		
Colorant; Printing ink related material; Printing ink.		
Uses advised against	Reason	
Not applicable.		

1.3 Details of the supplier of the safety data sheet

Manufacturer/ Distributor	: SUN CHEMICAL CRAY AVENUE ST MARY CRAY ORPINGTON KENT BR5 3PP UNITED KINGDOM (44) 1689 894000 SUN CHEMICAL 3 HIGH VIEW ROAD SOUTH NORMANTON DERBYSHIRE DE55 2DT UNITED KINGDOM (44) 1773 813704
e-mail address of person responsible for this SDS	: regulatory.affairs@sunchemical.com
1.4 Emergency telephone nu <u>Supplier</u>	umber
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Telephone number	:	(44) 870-8200418 (Chemtrec - 24 hours)
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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317

2.2 Label elements Hazard pictograms

See Section 16 for the full text of the H statements declared above.

:

See Section 11 for more detailed information on health effects and symptoms.

Signal word	Danger	
Hazard statements	Causes serious eye damage. Causes skin irritation. May cause an allergic reaction.	skin
Precautionary statements		
Prevention	Avoid breathing vapor. Wear protective gloves. Wear eye or face protection Wash hands thoroughly after handling.	on.
Response	IF IN EYES: Rinse cautiously with water for several minutes. Remove cor lenses, if present and easy to do. Continue rinsing. Immediately call a POI CENTER or physician.	
Storage	Not applicable.	
Disposal	Dispose of contents and container in accordance with all local, regional, na and international regulations.	itional
Hazardous ingredients	oxybis(methyl-2,1-ethanediyl) diacrylate Propylidynetrimethanol, ethoxylated, esters with acrylic acid 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2, 3-epoxypropane, esters with acrylic acid 2,2-bis(acryloyloxymethyl)butyl acrylate Glycerol, propoxylated, esters with acrylic acid ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate 4-phenylbenzophenone hexamethylene diacrylate mequinol	
Supplemental label elements	Not applicable.	
2.3 Other hazards		
Other hazards which do not result in classification	None known.	

SECTION 3: Composition/information on ingredients

Substance/mixture

: Mixture

SECTION 3: Composition/information on ingredients

-	_		1	
			Classification	
Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
oxybis(methyl-2,1-ethanediyl) diacrylate	REACH #: 01-2119484629-21 EC: 260-754-3 CAS: 57472-68-1	20 < 25	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317	[1]
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	REACH #: 01-2119489900-30 EC: 500-066-5 CAS: 28961-43-5	20 < 25	Eye Irrit. 2, H319 Skin Sens. 1, H317	[1]
4,4'-Isopropylidenediphenol, oligomericreaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	REACH #: 01-2119490020-53 EC: 500-130-2 CAS: 55818-57-0	10 < 20	Skin Sens. 1, H317	[1]
2,2-bis(acryloyloxymethyl)butyl acrylate	REACH #: 01-2119489896-11 EC: 239-701-3 CAS: 15625-89-5 Index: 607-111-00-9	5 < 10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412	[1]
Glycerol, propoxylated, esters with acrylic acid	REACH #: 01-2119487948-12 EC: 500-114-5 CAS: 52408-84-1	5 < 10	Eye Irrit. 2, H319 Skin Sens. 1, H317	[1]
2-Propenoic acid, 1,1'-(1,6 hexanediyl) ester	CAS: 67906-98-3	3 < 5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	[1]
ethyl phenyl(2,4,6-trimethylbenzoyl) phosphinate	REACH #: 01-2119987994-10 EC: 282-810-6 CAS: 84434-11-7	1.0 < 2.5	Skin Sens. 1, H317 Aquatic Chronic 2, H411	[1]
4-phenylbenzophenone	EC: 218-345-2 CAS: 2128-93-0	1.0 < 2.5	Skin Irrit. 2, H315 Skin Sens. 1, H317	[1]
hexamethylene diacrylate	REACH #: 01-2119484737-22 EC: 235-921-9 CAS: 13048-33-4 Index: 607-109-00-8	1.0 < 2.5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317	[1]
mequinol	EC: 205-769-8 CAS: 150-76-5 Index: 604-044-00-7	0.25 < 1.0	Acute Tox. 4, H302 Eye Irrit. 2, H319 Skin Sens. 1, H317 Repr. 2, H361f (Fertility) (oral) Aquatic Chronic 3, H412	[1]
			See Section 16 for the full text of the H statements declared above.	

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, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

Туре

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

Date of issue : 16 October 2017

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

SECTION 4: First aid measures

4.1 Description of first aid measures

General	 In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
Eye contact	: Check for and remove any contact lenses. Immediately flush eyes with room temperature water for at least 15 minutes, keeping eyelids open. In case of accidental eye contact, avoid concurrent exposure to the sun or other sources of UV light which may increase the sensitivity of the eyes.
Inhalation	 Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners. In case of accidental skin contact, avoid concurrent exposure to the sun or other sources of UV light which may increase the sensitivity of skin.
Ingestion	: If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
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.

4.2 Most important symptoms and effects, both acute and delayed

There are no data available on the mixture itself. Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]. See Sections 2 and 3 for details.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact. Acrylate components of the mixture have irritating properties. Prolonged or repeated contact with skin or mucous membrane may result in irritation symptoms, such as redness, blistering, dermatitis etc. May cause allergic skin reactions with repeated exposure.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

The inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract.

Ingestion may cause nausea, weakness and central nervous system effects.

Contains oxybis(methyl-2,1-ethanediyl) diacrylate, Propylidynetrimethanol, ethoxylated, esters with acrylic acid, 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid, 2,2-bis (acryloyloxymethyl)butyl acrylate, Glycerol, propoxylated, esters with acrylic acid, ethyl phenyl(2,4,6-trimethylbenzoyl) phosphinate, 4-phenylbenzophenone, hexamethylene diacrylate, mequinol. May produce an allergic reaction.

The following products have sensitizing properties: oxybis(methyl-2,1-ethanediyl) diacrylate, Propylidynetrimethanol, ethoxylated, esters with acrylic acid, 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2, 3-epoxypropane, esters with acrylic acid, 2,2-bis(acryloyloxymethyl)butyl acrylate, Glycerol, propoxylated, esters with acrylic acid, ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate, 4-phenylbenzophenone, hexamethylene diacrylate. Cases of hypersensitivity may occur, possibly with cross-sensitization to other acrylate materials.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to medical doctor	: 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.

SECTION 4: First aid measures

SECTION 5: Firefighting measures

5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
5.2 Special hazards arising f	rom the substance or mixture
Hazards from the substance or mixture	 Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.
5.3 Advice for firefighters	
Special protective actions for fire-fighters	: Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.
Special protective equipment for fire-fighters	: Appropriate breathing apparatus may be required.

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	ive equipment and emergency procedures	
For non-emergency personnel	Exclude sources of ignition and ventilate the area. Avoid breathing vapor Refer to protective measures listed in sections 7 and 8.	or mist.
For emergency responders	f specialized clothing is required to deal with the spillage, take note of ar nformation in Section 8 on suitable and unsuitable materials. See also t nformation in "For non-emergency personnel".	
6.2 Environmental precautions	Do not allow to enter drains or watercourses. If the product contaminates ivers, or sewers, inform the appropriate authorities in accordance with lo egulations.	
6.3 Methods and materials for containment and cleaning up	Contain and collect spillage with non-combustible, absorbent material e.gearth, vermiculite or diatomaceous earth and place in container for dispon according to local regulations (see Section 13). Preferably clean with a d Avoid using solvents.	sal
6.4 Reference to other sections	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipm See Section 13 for additional waste treatment information.	ent.

SECTION 7: Handling and storage

Persons with a history of skin sensitization problems should not be employed in any process in which this product is used, without Personal Protective Equipment measures.

7.1 Precautions for safe handling	 Use only in well-ventilated areas. Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Keep container tightly closed. Keep away from heat, sparks and flame. Always keep in containers made from the same material as the original one. Put on appropriate personal protective equipment (see Section 8). Never use pressure to empty. Container is not a pressure vessel. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Comply with the health and safety at work laws.
7.2 Conditions for safe storage, including any incompatibilities	 Store between the following temperatures: 5 - 35 °C Keep away from heat and direct sunlight. Store in accordance with local regulations. Notes on joint storage Keep away from: oxidizing agents, strong alkalis, strong acids. Additional information on storage conditions Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep container tightly closed. Keep away from sources of ignition. No smoking. Prevent unauthorized access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Keep only in the original container. Keep away from heat and direct sunlight.
7.3 Specific end use(s) Recommendations Industrial sector specific solutions	Not available. Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

SECTION 8: Exposure controls/personal protection

Product/ ingredient name	Туре	Exposure	Value	Population	Effects
oxybis(methyl-2,1-ethanediyl) diacrylate	DNEL DNEL	Long term Inhalation Long term Dermal	24.28 mg/m ³ 2.77 mg/kg bw/day	Workers Workers	Systemic Systemic
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,	DNEL	Long term Inhalation	122.5 mg/m ³	Workers	Systemic
3-epoxypropane, esters with acrylic acid					
	DNEL	Long term Dermal	17.5 mg/kg bw/day	Workers	Systemic
2,2-bis(acryloyloxymethyl)butyl acrylate	DNEL	Long term Inhalation	16.2 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	1.39 mg/kg bw/day	Workers	Systemic
Glycerol, propoxylated, esters with acrylic acid	DNEL	Long term Inhalation	16.22 mg/kg	Workers	Systemic
	DNEL	Long term Dermal	1.92 mg/kg bw/day	Workers	Systemic
hexamethylene diacrylate	DNEL DNEL	Long term Inhalation Long term Dermal, Inhalation	24.48 mg/m³ 2.77 mg/kg bw/day	Workers Workers	Systemic Systemic

PNECs

Product/ingredient name	Туре	Compartment Detail	Value	Method Detail
oxybis(methyl-2,1-ethanediyl) diacrylate	-	Fresh water	0.0034 mg/l	-
	-	Marine water	0.00034 mg/l	-
	-	Sewage Treatment Plant	100 mg/l	-
	-	Fresh water sediment	0.00884 mg/kg dwt	-
	-	Soil	0.0013 mg/kg dwt	-
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	-	Fresh water	0.1 mg/l	-
	-	Marine water	0.01 mg/l	-
	-	Sewage Treatment Plant	10 mg/l	-
	-	Fresh water sediment	35.8 mg/kg dwt	-
	-	Marine water sediment	3.58 mg/kg dwt	-
	-	Soil	71 mg/kg dwt	-
2,2-bis(acryloyloxymethyl)butyl acrylate	-	Fresh water	0.00147 mg/l	-
,	-	Marine water	0.000147 mg/l	-
	-	Sewage Treatment Plant	6.25 mg/l	-
	-	Fresh water sediment	0.0062 mg/kg dwt	-
	-	Marine water sediment	0.00062 mg/kg dwt	-
	-	Soil	0.0043 mg/kg dwt	-
	-	Secondary Poisoning	5.6 mg/kg	-
Glycerol, propoxylated, esters with acrylic acid	-	Fresh water	0.00574 mg/l	-
	-	Marine water	0.000574 mg/l	-
	-	Sewage Treatment Plant	10 mg/l	-
	-	Fresh water sediment	0.01687 mg/kg dwt	-
	-	Marine water sediment	0.001687 mg/kg dwt	-
	-	Soil	0.00111 mg/kg dwt	-
	-	Secondary Poisoning	5.6 mg/kg	-

SNT48

SECTION 8: Exposur	e co	ntrols/p	personal protection	on	
hexamethylene diacrylate		-	Fresh water	0.0015 mg/l	-
		-	Marine water	0.00015 mg/l	-
		-	Sewage Treatment Plant	2.7 mg/l	-
		-	Fresh water sediment	0.0243 mg/kg dwt	-
		-	Marine water sediment	0.00243 mg/kg dwt	-
		-	Soil	0.00397 mg/kg	-
				dwt	
.2 Exposure controls					
Appropriate engineering	: Pro	ovide adeq	uate ventilation. Where re	asonably practicable	e. this should be
controls	acl	nieved by t	he use of local exhaust ve sufficient to maintain con	entilation and good g	eneral extraction. If
			L, suitable respiratory pro		
Individual protection measu			_, callable : cop. alc. , p. c		
		ala la avada	for a surrey of the set the surrey	, a la la casti a a la casti la cast	ala anaisa di sata di sata
Hygiene measures	ea Ap Co coi	ting, smoki propriate to ntaminateo ntaminateo	forearms and face thoroung and using the lavatory echniques should be used d work clothing should not l clothing before reusing.	and at the end of the to remove potential be allowed out of the Ensure that eyewas	e working period. Iy contaminated clothing ie workplace. Wash
	-		close to the workstation lo		
Eye/face protection	: Us	e safety ey	ewear designed to protec	t against splash of li	quids.
Skin protection					
Hand protection			is may help to protect the exposure has occurred.	exposed areas of th	e skin but should not be
Gloves	be this cho sho diff sev	worn at all s is necess eck during ould be not erent for d	istant, impervious gloves times when handling che sary. Considering the para use that the gloves are sti ted that the time to breaktl ifferent glove manufacture ances, the protection time	mical products if a r ameters specified by ill retaining their prot hrough for any glove ers. In the case of n	sk assessment indicate the glove manufacturer ective properties. It material may be nixtures, consisting of
Gloves	-sii exp Do of tea -ge fre cui pui - h sol ace	ngle use: d posures no not use w the gloves ring of the eneral use: e nitrile glo ing acrylat nctured or eavy duty: vents. Avo	commend use of: isposable, unpowdered, n of exceeding 30 minutes, in here mechanical resistance is likely to occur. Replace gloves has occurred. minimum 0.45mm thick, u ves: Use for longer durati es) or mechanical handlin when a change of appear unlined, natural rubber lat id the use of chlorinated s K, MIBK) and ethyl and bu	n situations where o ce is required or whe immediately if punc- unlined, unpowdered on exposure (up to 4 g activities. Replace ance (colour, elastic ex-free nitrile gloves colvents and limit the	nly splashes are likely. ere puncturing or tearing tured, degraded or d, natural rubber latex- 4 hours for most UV/EB e immediately when ity, shape) occurs s: Use when handling e use of ketones (e.g.
Body protection	: Pe	rsonnel sh	ould wear protective cloth	ing.	
Respiratory protection			where misting or flying ma	•	riate certified respirators
Environmental exposure controls			to enter drains or waterco		

SECTION 9: Physical and chemical properties

9.1 Information on basic physical	l a	nd chemical properties
Physical state	:	Liquid.
Color	:	White.
Odor	:	Characteristic.
Odor threshold	:	Not applicable.
Melting point/freezing point	:	Not applicable.
Flash point	:	>93.3°C (200F)
VOC	:	0%
рН	:	Not tested
Boiling point	:	Lowest known value: 429°C (807°F)
Evaporation rate	:	Highest known value: <1 (Alkyl Acrylate Ester) Weighted average: 0.9compared with butyl acetate
Upper/lower flammability or explosive limits	:	Not tested
Vapor pressure	:	Not tested
Vapor density	:	Not tested
Relative density	:	Not tested
Solubility(ies)	:	Not tested
Partition coefficient: n-octanol/ water	:	Not applicable.
Auto-ignition temperature	:	Not applicable.
Decomposition temperature	:	Not applicable.
Viscosity	:	Not tested
Explosive properties	:	Not applicable.
Oxidizing properties	:	Not applicable.

9.2 Other information

No additional information.

SECTION 10: Stabilit	SECTION 10: Stability and reactivity				
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.				
10.2 Chemical stability	: Hazardous reactions or instability may occur under certain conditions of storage or use.				
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.				
10.4 Conditions to avoid	: This mixture contains materials which are unstable under the following conditions: exposure to heat, strong UV sources. These could cause the product to polymerize exothermically. Unintentional contact with them should be avoided.				
10.5 Incompatible materials	: Keep away from: free radical initiators, peroxides, strong alkalis, reactive metals.				
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.				

SECTION 10: Stability and reactivity

Hazardous polymerization : May polymerize on exposure to sunlight.

SECTION 11: Toxicological information

There are no data available on the mixture itself. Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]. See Sections 2 and 3 for details.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact. Acrylate components of the mixture have irritating properties. Prolonged or repeated contact with skin or mucous membrane may result in irritation symptoms, such as redness, blistering, dermatitis etc. May cause allergic skin reactions with repeated exposure.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

The inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract.

Ingestion may cause nausea, weakness and central nervous system effects.

Contains oxybis(methyl-2,1-ethanediyl) diacrylate, Propylidynetrimethanol, ethoxylated, esters with acrylic acid, 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid, 2,2-bis (acryloyloxymethyl)butyl acrylate, Glycerol, propoxylated, esters with acrylic acid, ethyl phenyl(2,4,6-trimethylbenzoyl) phosphinate, 4-phenylbenzophenone, hexamethylene diacrylate, mequinol. May produce an allergic reaction.

The following products have sensitizing properties: oxybis(methyl-2,1-ethanediyl) diacrylate, Propylidynetrimethanol, ethoxylated, esters with acrylic acid, 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2, 3-epoxypropane, esters with acrylic acid, 2,2-bis(acryloyloxymethyl)butyl acrylate, Glycerol, propoxylated, esters with acrylic acid, ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate, 4-phenylbenzophenone, hexamethylene diacrylate. Cases of hypersensitivity may occur, possibly with cross-sensitization to other acrylate materials.

11.1 Information on toxicological effects

Acute toxicity				
Product/ingredient name	Result	Species	Dose	Exposure
oxybis(methyl-2, 1-ethanediyl) diacrylate	LD50 Dermal	Rabbit	>2 g/kg	-
., .	LD50 Oral	Rat	4600 mg/kg	-
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	LD50 Dermal	Rabbit	>13 g/kg	-
2,2-bis(acryloyloxymethyl) butyl acrylate	LD50 Dermal	Rabbit	5170 mg/kg	-
hexamethylene diacrylate	LD50 Oral	Rat	5 g/kg	-
mequinol	LD50 Oral	Rat	1600 mg/kg	-

Irritation/Corrosion

Not determined - Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Sensitization

Not determined - Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Mutagenicity

Not determined - Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Carcinogenicity

Not determined - Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Reproductive toxicity

Not determined - Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] **Teratogenicity**

Not determined - Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] **Specific target organ toxicity (single exposure)**

SECTION 11: Toxicological information

Product/ingredient name	Category	Route of exposure	Target organs
2-Propenoic acid, 1,1'-(1,6 hexanediyl) ester	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not determined - Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Aspiration hazard

Not determined - Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

SECTION 12: Ecological information

There are no data available on the mixture itself. Do not allow to enter drains or watercourses.

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS].

12.1 Toxicity

mequinol Acute LC50 28500 μg/l Fresh water Fish - On

Fish - Oncorhynchus mykiss - 4. 96 hours 6 to 6.4 cm - 1.2 to 3.8 g

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
oxybis(methyl-2, 1-ethanediyl) diacrylate	0.01 to 0.39	-	low
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	2.89	-	low
4,4 ⁱ -Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2, 3-epoxypropane, esters with acrylic acid	1.6 to 3	-	low
2,2-bis(acryloyloxymethyl) butyl acrylate	0.67	-	low
Glycerol, propoxylated, esters with acrylic acid	2.52	-	low
hexamethylene diacrylate	2.81	-	low
mequinol	1.58	-	low

12.4 Mobility in soil	
Soil/water partition	: Not available.
coefficient (Koc)	
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment

PBT

: Not applicable.

SECTION 12: Ecological information

vPvB

: Not applicable.

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

Do not allow to enter drains or watercourses.

Dispose of according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

For further information, contact your local waste authority.

13.1 Waste treatment methods

Product

Methods of disposal	: 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.
<u>Packaging</u>	
Methods of disposal	 The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
European Waste Catalogue (EWC):	: 08 03 12 waste ink containing hazardous substances
Special 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. Avoid dispersal of

spilled material and runoff and contact with soil, waterways, drains and sewers.

	ADR/RID	ADN	IMDG	ΙΑΤΑ	
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	
14.2 UN proper shipping name	Not regulated.	Not regulated.	Not regulated.	Not regulated.	
14.3 Transport hazard class(es)	Not regulated.	Not regulated.	Not regulated.	Not regulated.	
14.4 Packing group	-	-	-	-	
14.5 Environmental hazards	No.	No.	No.	No.	
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SECTION 14:	Transpor	t information		SNT4
Additional information	-	The product is only regulated as a dangerous good when transported in tank vessels.	-	-
14.6 Special precautions for user	•	within user's premises: always transure that persons transporting the pr spillage.	•	

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

: Not available.

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : Not applicable.

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Other EU regulations

Product/ingredient name	Carcinogenic effects	Mutagenic effects	Developmental effects	Fertility effects	
mequinol	-	-	-	Repr. 2, H361f (Fertility) (oral)	
Industrial use	: The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.				
15.2 Chemical Safety Assessment	: No Chemical Safety Assessment has been carried out.				

SECTION 16: Other information

CEPE code

: 4

 \blacksquare Indicates information that has changed from previously issued version.

SECTION 16: Other information		
Abbreviations and	: ATE = Acute Toxicity Estimate	
acronyms	CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]	
	DNEL = Derived No Effect Level	
	EUH statement = CLP-specific Hazard statement	
	PNEC = Predicted No Effect Concentration	
	RRN = REACH Registration Number	

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification		Justification	
Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317	Cal	culation method culation method culation method	
Full text of abbreviated H statements	H315Causes skin irritationH317May cause an allergH318Causes serious eyeH319Causes serious eyeH335May cause respiratoH361fSuspected of damag(Fertility)(oral)H411Toxic to aquatic life	Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Causes serious eye irritation. May cause respiratory irritation. Suspected of damaging fertility if swallowed.	
Full text of classifications [CLP/GHS]	Aquatic Chronic 2, H411AQAquatic Chronic 3, H412AQEye Dam. 1, H318SEEye Irrit. 2, H319SERepr. 2, H361f (Fertility)TO(oral)Skin Irrit. 2, H315SKSkin Sens. 1, H317SKSTOT SE 3, H335SP	UTE TOXICITY (oral) - Category 4 UATIC HAZARD (LONG-TERM) - Category 2 UATIC HAZARD (LONG-TERM) - Category 3 RIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 RIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 XIC TO REPRODUCTION (Fertility) (oral) - Category 2 IN CORROSION/IRRITATION - Category 2 IN SENSITIZATION - Category 1 ECIFIC TARGET ORGAN TOXICITY (SINGLE POSURE) (Respiratory tract irritation) - Category 3	
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Date of previous issue	: 17 August 2017		
Notice to reader			
	•	of our knowledge and on current laws. The product	

is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. 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. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.

Annex