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November 20, 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	: SNT27:PROCESS MAGENTA:DK03
Product code	: SNT27
Trade name	: SolarFlex® INTEGRA
Date of issue/ Date of revision	: 9 November 2017
Version	: 2

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		

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 Supplier	umber

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 Aquatic Chronic 2, H411

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.

2.2 Label elements Hazard pictograms	
Signal word	: Danger
Hazard statements	 Causes serious eye damage. Causes skin irritation. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.
Precautionary statements	
Prevention	: Avoid breathing vapor. Wear protective gloves. Wear eye or face protection. Avoid release to the environment.
Response	 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 physician.
Disposal	 Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	 Propylidynetrimethanol, ethoxylated, esters with acrylic acid 1-Butanamine, N-butyl-, reaction products with polyethylene glycol monoacrylate ether with trimethylolpropane (3:1) oxybis(methyl-2,1-ethanediyl) diacrylate 4-phenylbenzophenone hexamethylene diacrylate Glycerol, propoxylated, esters with acrylic acid mequinol 2,6-bis(1,1-dimethylethyl)-4-(phenylenemethylene)cyclohexa-2,5-dien-1-one
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

			Classification	
Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	REACH #: 01-2119489900-30 EC: 500-066-5 CAS: 28961-43-5	25 < 50	Eye Irrit. 2, H319 Skin Sens. 1, H317	[1]
1-Butanamine, N-butyl-, reaction products with polyethylene glycol monoacrylate ether with trimethylolpropane (3:1)	CAS: 195008-76-5	5 < 10	Eye Irrit. 2, H319 Skin Sens. 1A, H317	[1]
oxybis(methyl-2,1-ethanediyl) diacrylate	REACH #: 01-2119484629-21 EC: 260-754-3 CAS: 57472-68-1	5 < 10	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317	[1]
2-Propenoic acid, 1,1'-(1,6 hexanediyl) ester	CAS: 67906-98-3	5 < 10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	[1]
propylene carbonate	REACH #: 01-2119537232-48 EC: 203-572-1 CAS: 108-32-7 Index: 607-194-00-1	3 < 5	Eye Irrit. 2, H319	[1]
1,1'-(1,1-dimethyl-3-methylene-1, 3-propanediyl)bis-, rp. with Oxirane,	-	3 < 5	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
4-phenylbenzophenone	EC: 218-345-2 CAS: 2128-93-0	1.0 < 2.5	Skin Irrit. 2, H315 Skin Sens. 1, H317	[1]
2-benzyl-2-dimethylamino- 4-morpholinobutyrophenone	REACH #: 01-0000015394-70 EC: 404-360-3 CAS: 119313-12-1 Index: 606-047-00-9	1.0 < 2.5	Repr. 2, H361d (Unborn child) Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
mequinol	EC: 205-769-8 CAS: 150-76-5 Index: 604-044-00-7	0.1 < 0.25	Acute Tox. 4, H302 Eye Irrit. 2, H319 Skin Sens. 1, H317 Repr. 2, H361f (Fertility) (oral) Aquatic Chronic 3, H412 See Section 16 for the full text of the H statements declared above.	[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, 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

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SECTION 3: Composition/information on ingredients

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 Propylidynetrimethanol, ethoxylated, esters with acrylic acid, 1-Butanamine, N-butyl-, reaction products with polyethylene glycol monoacrylate ether with trimethylolpropane (3:1), oxybis(methyl-2,1-ethanediyl) diacrylate, 4-phenylbenzophenone, hexamethylene diacrylate, Glycerol, propoxylated, esters with acrylic acid, mequinol, 2,6-bis (1,1-dimethylethyl)-4-(phenylenemethylene)cyclohexa-2,5-dien-1-one. May produce an allergic reaction.

The following products have sensitizing properties: Propylidynetrimethanol, ethoxylated, esters with acrylic acid, 1-Butanamine, N-butyl-, reaction products with polyethylene glycol monoacrylate ether with trimethylolpropane (3:1), oxybis(methyl-2,1-ethanediyl) diacrylate, 4-phenylbenzophenone. 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, protective equipment and emergency procedures				
For non-emergency personnel	Exclude sources of ignition and ventilate the area. Avoid breathing vapor o Refer to protective measures listed in sections 7 and 8.	r mist.		
For emergency responders	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".			
6.2 Environmental precautions	Do not allow to enter drains or watercourses. If the product contaminates la rivers, or sewers, inform the appropriate authorities in accordance with loca regulations.			
6.3 Methods and materials for containment and cleaning up	Contain and collect spillage with non-combustible, absorbent material e.g. earth, vermiculite or diatomaceous earth and place in container for dispose according to local regulations (see Section 13). Preferably clean with a dete Avoid using solvents.	al		
6.4 Reference to other sections	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipmer See Section 13 for additional waste treatment information.	ıt.		

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.

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SECTION 7: Handling and storage

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	Not available.
Industrial sector specific solutions	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
propylene carbonate	DNEL DNEL	Long term Inhalation Long term Dermal Long term Inhalation Long term Dermal	24.28 mg/m ³ 2.77 mg/kg bw/day 20 mg/m ³ 50 mg/kg bw/day	Workers Workers Workers Workers	Systemic Systemic Local 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	-
propylene carbonate	-	Fresh water	0.9 mg/l	-
	-	Marine water	0.09 mg/l	-
	-	Fresh water sediment	0.83 mg/kg dwt	-
	-	Marine water sediment	0.083 mg/kg dwt	-
	-	Soil	0.81 mg/kg dwt	-
	-	Sewage Treatment Plant	7400 mg/l	-

8.2 Exposure controls

Appropriate engineering controls	Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapors below the OEL, suitable respiratory protection must be worn.	
Individual protection meas	ures	
Hygiene measures	: 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.	
Eye/face protection	: Use safety eyewear designed to protect against splash of liquids.	
Skin protection		
Hand protection	: Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.	
Gloves	: 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.	

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SECTION 8: Exposure controls/personal protection

Gloves	 "RadTech recommend use of: -single use: disposable, unpowdered, nitrile gloves: Use for short duration exposures not exceeding 30 minutes, in situations where only splashes are likely. Do not use where mechanical resistance is required or where puncturing or tearing of the gloves is likely to occur. Replace immediately if punctured, degraded or tearing of the gloves has occurred. -general use: minimum 0.45mm thick, unlined, unpowdered, natural rubber latex- free nitrile gloves: Use for longer duration exposure (up to 4 hours for most UV/EB curing acrylates) or mechanical handling activities. Replace immediately when punctured or when a change of appearance (colour, elasticity, shape) occurs heavy duty: unlined, natural rubber latex-free nitrile gloves: Use when handling solvents. Avoid the use of chlorinated solvents and limit the use of ketones (e.g. acetone, MEK, MIBK) and ethyl and butyl acetates, as they may accelerate glove deterioration."
Body protection	: Personnel should wear protective clothing.
Respiratory protection	: In situations where misting or flying may occur, use appropriate certified respirators.
Environmental exposure controls	: Do not allow to enter drains or watercourses.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	: Liquid.
Color	: Red.
Odor	: Characteristic.
Odor threshold	: Not applicable.
Melting point/freezing point	: Not applicable.
Flash point	: >100°C
VOC	: 4%
рН	: Not tested
Lower explosion limit	: Lower: 2.3%
Boiling point	: Lowest known value: 242°C (468°F)
Evaporation rate	: Highest known value: <1 (Trimethylolpropane Ethoxy Triacrylate) Weighted average: 0.83compared 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 9: Physical and chemical properties

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.
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 Propylidynetrimethanol, ethoxylated, esters with acrylic acid, 1-Butanamine, N-butyl-, reaction products with polyethylene glycol monoacrylate ether with trimethylolpropane (3:1), oxybis(methyl-2,1-ethanediyl) diacrylate, 4-phenylbenzophenone, hexamethylene diacrylate, Glycerol, propoxylated, esters with acrylic acid, mequinol, 2,6-bis(1, 1-dimethylethyl)-4-(phenylenemethylene)cyclohexa-2,5-dien-1-one. May produce an allergic reaction.

The following products have sensitizing properties: Propylidynetrimethanol, ethoxylated, esters with acrylic acid, 1-Butanamine, N-butyl-, reaction products with polyethylene glycol monoacrylate ether with trimethylolpropane (3:1), oxybis(methyl-2,1-ethanediyl) diacrylate, 4-phenylbenzophenone. 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

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SECTION 11: Toxicological information

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Propylidynetrimethanol, ethoxylated, esters with acrylic acid	LD50 Dermal	Rabbit	>13 g/kg	-
oxybis(methyl-2, 1-ethanediyl) diacrylate	LD50 Dermal	Rabbit	>2 g/kg	-
	LD50 Oral	Rat	4600 mg/kg	-
propylene carbonate	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
2-benzyl-2-dimethylamino- 4-morpholinobutyrophenone	LD50 Oral	Rat	>5000 mg/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)

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]. See Sections 2 and 3 for details.

12.1 Toxicity

2-benzyl-2-dimethylamino- 4-morpholinobutyrophenone	EC50 >2 mg/l	Aquatic plants - Selanastrum capricornutum	72 hours
	EC50 >100 mg/l	Micro-organism	2 hours
	Acute EC50 0.8 mg/l	Daphnia - Daphnia Magna	24 hours
	Acute LC50 0.46 mg/l	Fish	96 hours
mequinol	Acute LC50 28500 µg/l Fresh water	Fish - Oncorhynchus mykiss - 4. 6 to 6.4 cm - 1.2 to 3.8 g	96 hours

SECTION 12: Ecological information

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	2.89	-	low
oxybis(methyl-2, 1-ethanediyl) diacrylate	0.01 to 0.39	-	low
propylene carbonate	-0.41	-	low
2-benzyl-2-dimethylamino- 4-morpholinobutyrophenone	2.91	-	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.			
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

<u>Product</u>	
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.
Packaging	
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.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number	₩N3082	<mark>1</mark> /N3082	<mark>1</mark> /N3082	<mark>₩</mark> N3082
14.2 UN proper shipping name	NVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1,1'- (1,1-dimethyl- 3-methylene-1, 3-propanediyl)bis-, rp. with Oxirane,; 2-benzyl- 2-dimethylamino- 4-morpholinobutyrophenone)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1,1'- (1,1-dimethyl- 3-methylene-1, 3-propanediyl)bis-, rp. with Oxirane,; 2-benzyl- 2-dimethylamino- 4-morpholinobutyrophenone)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1,1'- (1,1-dimethyl- 3-methylene-1, 3-propanediyl)bis-, rp. with Oxirane,; 2-benzyl- 2-dimethylamino- 4-morpholinobutyrophenone)	NVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1,1'- (1,1-dimethyl- 3-methylene-1, 3-propanediyl)bis-, rp. with Oxirane,; 2-benzyl- 2-dimethylamino- 4-morpholinobutyrophenone
14.3 Transport hazard class(es)				
14.4 Packing group	M	Ш	Ш	М
14.5 Environmental hazards	¥es.	Yes.	Yes.	Yes.
Additional information	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4. 1.1.4 to 4.1.1.8. Tunnel code	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4. 1.1.4 to 4.1.1.8.	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4. 1.1.4 to 4.1.1.8.	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.
	(E)			

precautions for user

secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk: Not available.according to Annex II ofMARPOL and the IBC Code

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	•	Developmental effects	Fertility effects
2-benzyl-2-dimethylamino- 4-morpholinobutyrophenone	-	-	Repr. 2, H361d (Unborn child)	-
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 : No Chemical Safety Assessment has been carried out.

Assessment

SECTION 16: Other information

CEPE code	:	4
\blacksquare Indicates information that ha	as	changed from previously issued version.
Abbreviations and acronyms	:	ATE = Acute Toxicity Estimate 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]

Classif	fication		Justification
Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 2, H411			Calculation method Calculation method Calculation method Calculation method
Full text of abbreviated H statements	: H302 H315 H317 H318 H319 H335 H361d (Unborn child)	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 the unborn child.	

SECTION 16: Other information

(oral)H400Very toxic to aquatic life.H410Very toxic to aquatic life with long lasting effects.H411Toxic to aquatic life with long lasting effects.H412Harmful to aquatic life with long lasting effects.H412Aquatic Acute 1, H400Aquatic Chronic 2, H411AQUATIC HAZARD (LONG-TERM) - Category 1Aquatic Chronic 2, H411AQUATIC HAZARD (LONG-TERM) - Category 2Aquatic Chronic 3, H412Aquatic Chronic 3, H412Aquatic Chronic 3, H412Serilous EYE DAMAGE/ EYE IRRITATION - Category 3Eye Dam. 1, H318Serilous EYE DAMAGE/ EYE IRRITATION - Category 3Repr. 2, H3611 (Unborn child)Repr. 2, H3611 (Fertility)Repr. 2, H3611 (Fertility)Oral)Skin Sens. 1A, H317Skin Sen	L	H361f Suspected of damaging fertility if swallowed.		
H400Very toxic to aquatic life.H410Very toxic to aquatic life with long lasting effects.H411Toxic to aquatic life with long lasting effects.H412Harmful to aquatic life with long lasting effects.H412Harmful to aquatic life with long lasting effects.Full text of classifications: Acute Tox. 4, H302Aquatic Chronic 1, H410AQUATIC HAZARD (LONG-TERM) - Category 1Aquatic Chronic 2, H411AQUATIC HAZARD (LONG-TERM) - Category 2Aquatic Chronic 2, H411AQUATIC HAZARD (LONG-TERM) - Category 3Eye Dam. 1, H318SERIOUS EYE DAMAGE/ EYE IRRITATION - CategorEye Irrit 2, H319SERIOUS EYE DAMAGE/ EYE IRRITATION - CategorRepr. 2, H361d (Unborn child)TOXIC TO REPRODUCTION (Fertility) (oral) - Category 1Skin Irrit. 2, H315SKIN CORROSION/IRRITATION - Category 2Skin Sens. 1A, H317SKIN SENSITIZATION - Category 1Skin Sens. 1A, H317SKIN SENSITIZATION - Category 1Skin Sens. 1A, H317SKIN SENSITIZATION - Category 1Stor F 3, H335SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3Date of printing: 20 November 2017Date of previous issue: 10 August 2017Notice to readerThe information in this SDS is based on the present state of our knowledge and on current laws. The prod 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 i		(Fertility)		
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