## **Hoechst 33342 Fluorescent Nucleic Acid Stain**

Cat#: orb511132 (MSDS)

Section	Section 1: Identification of the substance/mixture and of the company/undertaking		
1.1	Product identifier:	Hoechst 33342 Fluorescent Nucleic Acid Stain	
1.1a	Other means of identification:		
1.1b	Alternative product name(s)/ synonyms:	Hoechst stain, HS	
1.1c	Product number/Catalog #(s):	Orb511132	
1.1d	Internal identification:	Hoechst stain; HS	
1.2	Relevant identified uses of the substance or	For research use only. Not for use in diagnostic procedures.	
	mixture and uses advised against:		
1.2a	Brief description of what the substance or mixture is	Cell permeant blue fluorescent stain typically used to visualize the	
	intended to do:	nuclei of cells.	

Section	on 2: Hazards identification	
2.1	Classification of the substance or mixture:	
2.1a	Product is a:	Mixture.
2.1b	Classification according to (EC) No. 1272/2008	Does not meet the criteria for classification.
	{CLP}:	
2.1c	The most important adverse physiochemical, human	Refer to Sections 9-12.
	health, and environmental effects:	
2.2	Label elements:	None.
2.2a	GHS label elements, including precautionary	
	statements:	
2.2b	Contains:	
2.2c	Labeling in accordance with (EC) No. 1272/2008:	
2.2d	Hazard Pictograms (Hazard Symbols):	None.
2.2e	Signal word:	None.
2.2f	Hazard statements:	None.
2.2g	Precautionary statements:	None.
2.2h	Supplementary precaution statements:	None.
2.3	Other hazards:	No additional information available.
2.3a	Does the chemical meet the criteria for PBT or vPvB?	Not applicable.
2.3b	Other hazards which do not result in classification:	Hoechst contains a low concentration of Bis benzimide H 33342
		trihydrochloride (CAS 23491-52-3) which is below the threshold for
		reporting. Hoechst is a suspected mutagen at high concentrations.
		Prolonged skin contact may cause redness and irritation. Because of
		the small quantity of product, the health hazard is small.

Secti	on 3: Composition/information on ingredients	
3.1	Substance:	Item is a mixture therefore Section 3.1 is not applicable; see Section
		3.2.
3.2	Mixture:	Item is a mixture.
	The chemical identity and concentration or	
	concentration ranges of all ingredients which are	
	hazardous and are present above their cut-off levels:	
	3.2a Chemical identity:	No ingredients identified for reporting in this section.

Section 4: First aid measures		
4.1	Description of first aid measures:	If concerned, get medical attention/advice and provide physician
		with SDS information. Wash contaminated clothing before re-use.
		Never give anything by mouth to an unconscious person.



4.1a	Inhalation:	Remove to fresh air and keep at rest in a comfortable position for
4.1a	minalation.	breathing. If not breathing, give artificial respiration. Rinse nose and
		mouth with water. Get medical attention if any discomfort continues.
4.1b	Skin contact:	Wash skin thoroughly with soap and water for several minutes;
4.10	Skill contact.	continue to rinse for at least 15 minutes. Remove any contaminated
		clothing and shoes and wash thoroughly before reuse. Get medical
		attention if any discomfort continues.
110	Eve contact:	Promptly wash eyes with plenty of water while lifting the eyelids. Make
4.1c	Eye contact:	sure to remove any contact lenses from the eyes before rinsing.
		Continue to rinse for at least 15 minutes. Get medical attention if any
4.1d	Ingestion	discomfort continues.  NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK
4.10	Ingestion:	
		FLUIDS! Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center or medical professional. Get medical
4.0	Martine established	attention if any discomfort continues.
4.2	Most important symptoms and effects, both acute	Hoechst is a suspected mutagen at high concentrations. Prolonged
	and delayed:	skin contact may cause redness and irritation. Because of the small
		quantity of product, the health hazard is small.
4.2a	Inhalation:	May cause coughing or mild irritation.
4.2b	Skin contact:	Prolonged skin contact may cause redness and mild irritation.
4.2c	Eye contact:	May cause temporary eye irritation.
4.2d	Ingestion:	May cause discomfort if swallowed.
4.3	Indication of any immediate medical attention and	No specific first aid measures noted, but first aid may still be required
	special treatment needed:	in case of accidental exposure, inhalation, or ingestion of this product.
		If in doubt, get medical attention promptly!
4.3a	Notes to physician/first responder:	Treat symptomatically. Refer to Sections 5-8 for advice on personal
		protective equipment.

5.1	Extinguishing media:	This product is not flammable. Use fire-extinguishing media
		appropriate for the surrounding materials.
5.1a	Suitable extinguishing media:	Water spray, foam, dry powder, or carbon dioxide.
5.1b	Unsuitable extinguishing media:	None known.
5.2	Special hazards arising from the substance or	This product is not flammable. Product is not explosive. No dangerous
	mixture:	reactions known under normal conditions of use.
5.2a	Hazardous combustion products:	None under normal conditions.
5.2b	Unusual fire & explosion hazards:	No unusual fire or explosion hazards noted.
5.2c	Protective measures in fire:	Use protective equipment appropriate for surrounding materials.
5.3	Advice for firefighters:	Keep away from heat, hot surfaces, sparks, open flames and other
		ignition sources. No smoking.
5.3a	Special firefighting procedures:	No specific firefighting procedure given.
5.3b	Special protective equipment and precautions for	Wear full protective clothing, including self-contained breathing
	firefighters:	apparatus, if necessary. The product presents no special fire hazards
		in normal use. Keep away from heat, hot surfaces, sparks, open
		flames and other ignition sources. No smoking.
6.1	Personal precautions, protective equipment, and	Use protective equipment appropriate for surrounding materials.
0.1	<u> </u>	Ose protective equipment appropriate for surrounding materials.
6.1a	emergency procedures: General release measures:	No appoific amorganou macaurae are required other than good
6.1a	General release measures.	No specific emergency measures are required other than good
		laboratory hygiene and safety practices for small spills. Wear suitable
		protective clothing, gloves and eye or face protection. Consult
0.41		professional emergency personnel if concerned (see Section 8).
6.1b	Advice for non-emergency personnel; personal	No specific emergency measures are required other than good
	precautions, protective equipment and emergency	laboratory hygiene and safety practices. Wear suitable protective
	procedures:	clothing/gloves/eye/face protection to avoid contact with skin, eyes,
		and personal clothing; use an approved supplied-air respirator, in case
		of emergency (also refer to Section 8). Remove all sources of ignition.
		Ensure adequate ventilation and control dust/mist. Avoid breathing
		vapors, mist, or gas. Evacuate personnel to safe areas. Wear suitable
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ponders; personal uipment and emergency	protective clothing, gloves and eye or face protection to prevent any contamination. Consult professional emergency personnel if concerned.  Wear suitable protective clothing, gloves and eye or face protection to
	concerned.  Wear suitable protective clothing, gloves and eye or face protection to
	Wear suitable protective clothing, gloves and eye or face protection to
uipment and emergency	
	avoid contact; use an approved supplied-air respirator, in case of
	emergency (also refer to Section 8).
ons:	Do not allow to enter drains, sewers, or watercourses.
or containment and	Contain any spills with dikes or absorbent materials to prevent
	migration and entry into sewers or water sources. Place in a suitable
	container for disposal in accordance with local waste regulations (see
	Section 13). Wash spill area thoroughly with plenty of soap and water.
	Avoid contact with skin or inhalation of spillage, dust, or vapor.
	Refer to Sections 8 and 13 for additional information.
	Do not handle until all safety precautions have been read and
	understood. Avoid creation of aerosol/mist/dust. Avoid inhalation of
	vapors/mist/dust. Prevent contact with skin and eyes. Use appropriate
	personal protection equipment (PPE). Thoroughly wash hands and
	contaminated areas with water and soap before leaving the work site.
	Keep away from sources of ignition.
ubstances or	Avoid contact with strong acids and strong oxidizers.
giene:	Do not eat, drink, or smoke in work areas. Wash hands after use.
	Remove contaminated clothing and protective equipment before
	entering eating areas. Good personal hygiene is necessary. Follow
	good laboratory hygiene and safety practices.
uding any	Refer to product label. Store in cool place. Keep container tightly
	closed in a dry and well-ventilated place. Containers which are opened
	must be carefully resealed and kept upright to prevent leakage. Avoid
	spills and release into the environment; keep away from watercourses.
5	substances or /giene:



Sectio	n 8: Exposure controls/personal protection	
8.1	Control parameters:	
8.1a	Occupational exposure limits, such as chemical	Not available.
	identity, standard, TWA-8 hours (time weighted	
	average), STEL-15 minutes (short term exposure	
	limit), etc.: WEL = Workplace Exposure Limit. Sk =	
	can be absorbed through skin.	
8.1b	Appropriate engineering controls:	
8.1c	Individual protection measures, such as personal	Wear gloves, protective goggles, and lab coat.
	protective equipment:	
8.1d	Safety symbols:	
8.2	Exposure controls:	
8.2a	Process conditions:	Provide eyewash station.
8.2b	Engineering controls:	Ensure that eyewash stations and safety showers are proximal to the
		workstation location.
8.2c	Ventilation controls:	Provide adequate ventilation.
8.2d	Reference to other sections:	Refer to Section 5 for additional information.
8.2e	Eye/face protection:	Wear approved chemical safety goggles where eye exposure is
		reasonably probable or face shield if risk of splashing.
8.2f	Skin protection:	Wear apron or protective clothing in case of contact.
8.2g	Hand protection:	Use suitable protective gloves if risk of skin contact.
8.2h	Respiratory equipment:	Where risk assessment shows air-purifying respirators are appropriate
		use a full-face respirator with multi-purpose combination (US) or type
		ABEK (EN 14387) respirator cartridges as a backup to engineering
		controls. If the respirator is the sole means of protection, use a full-face
		supplied air respirator. Use respirators and components tested and
		approved under appropriate government standards such as NIOSH
		(US) or CEN (EU).
8.2i	Other protection:	Wear appropriate clothing to avoid skin contact.
8.2j	Hygiene measures:	DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift
		and before eating, smoking, and using the toilet. Promptly remove any
		clothing that becomes contaminated. Use appropriate skin cream to
		prevent drying of skin. When using do not eat, drink, or smoke. Wash
		promptly with soap and water if skin becomes contaminated
8.2k	Thermal hazards:	None known under normal conditions of use.
8.21	Environmental exposure controls:	Not determined.
Sectio	n 9: Physical and chemical properties	
Sectio 9.1	Information on basic physical and chemical	
9.1	Information on basic physical and chemical properties:	
<b>9.1</b> 9.1a	Information on basic physical and chemical	. Liquid; clear light yellow.
9.1a 9.1b	Information on basic physical and chemical properties: Appearance (physical state, color, etc.): Odor:	No characteristic odor.
9.1a 9.1b 9.1c	Information on basic physical and chemical properties: Appearance (physical state, color, etc.): Odor: Odor threshold:	No characteristic odor. Not determined.
9.1a 9.1b 9.1c 9.1d	Information on basic physical and chemical properties: Appearance (physical state, color, etc.): Odor: Odor threshold: pH:	No characteristic odor. Not determined. 3.0-5.0
9.1a 9.1b 9.1c 9.1d 9.1e	Information on basic physical and chemical properties:  Appearance (physical state, color, etc.): Odor: Odor threshold: pH: Melting point/freezing point (°C):	No characteristic odor.  Not determined.  3.0-5.0  Not determined.
9.1a 9.1b 9.1c 9.1d 9.1e 9.1f	Information on basic physical and chemical properties:  Appearance (physical state, color, etc.): Odor: Odor threshold: pH: Melting point/freezing point (°C): Initial boiling point and boiling range:	No characteristic odor.  Not determined.  3.0-5.0  Not determined.  <100°C @ 760 mm Hg.
9.1a 9.1b 9.1c 9.1d 9.1e 9.1f 9.1g	Information on basic physical and chemical properties:  Appearance (physical state, color, etc.): Odor: Odor threshold: pH: Melting point/freezing point (°C): Initial boiling point and boiling range: Flash point (°C):	No characteristic odor.  Not determined.  3.0-5.0  Not determined.  <100°C @ 760 mm Hg.  Not applicable.
9.1a 9.1b 9.1c 9.1d 9.1e 9.1f 9.1g 9.1h	Information on basic physical and chemical properties:  Appearance (physical state, color, etc.): Odor: Odor threshold: pH: Melting point/freezing point (°C): Initial boiling point and boiling range: Flash point (°C): Evaporation rate:	No characteristic odor.  Not determined.  3.0-5.0  Not determined.  <100°C @ 760 mm Hg.  Not applicable.  Not determined.
9.1a 9.1b 9.1c 9.1d 9.1e 9.1f 9.1g 9.1h 9.1i	Information on basic physical and chemical properties:  Appearance (physical state, color, etc.): Odor: Odor threshold: pH: Melting point/freezing point (°C): Initial boiling point and boiling range: Flash point (°C): Evaporation rate: Flammability (solid, gas):	No characteristic odor.  Not determined.  3.0-5.0  Not determined.  <100°C @ 760 mm Hg.  Not applicable.  Not determined.  Not applicable.
9.1a 9.1b 9.1c 9.1d 9.1e 9.1f 9.1g 9.1h 9.1i 9.1j	Information on basic physical and chemical properties:  Appearance (physical state, color, etc.): Odor: Odor threshold: pH: Melting point/freezing point (°C): Initial boiling point and boiling range: Flash point (°C): Evaporation rate:	No characteristic odor.  Not determined.  3.0-5.0  Not determined.  <100°C @ 760 mm Hg.  Not applicable.  Not determined.  Not applicable.  Not applicable.  Not applicable.
9.1a 9.1b 9.1c 9.1d 9.1e 9.1f 9.1g 9.1h 9.1i 9.1j 9.1k	Information on basic physical and chemical properties:  Appearance (physical state, color, etc.): Odor: Odor threshold: pH: Melting point/freezing point (°C): Initial boiling point and boiling range: Flash point (°C): Evaporation rate: Flammability (solid, gas): Upper/lower flammability or explosive limits: Vapor pressure:	No characteristic odor.  Not determined.  3.0-5.0  Not determined.  <100°C @ 760 mm Hg.  Not applicable.  Not determined.  Not applicable.  Not applicable.  Not applicable.  Not determined.
9.1a 9.1b 9.1c 9.1d 9.1e 9.1f 9.1g 9.1h 9.1i 9.1j 9.1k 9.1l	Information on basic physical and chemical properties:  Appearance (physical state, color, etc.): Odor: Odor threshold: pH: Melting point/freezing point (°C): Initial boiling point and boiling range: Flash point (°C): Evaporation rate: Flammability (solid, gas): Upper/lower flammability or explosive limits: Vapor pressure: Vapor density (Air =1):	No characteristic odor.  Not determined.  3.0-5.0  Not determined.  <100°C @ 760 mm Hg.  Not applicable.  Not determined.  Not applicable.  Not applicable.  Not applicable.  Not determined.  Not determined.  Not determined.  Not determined.  Not determined.
9.1a 9.1b 9.1c 9.1d 9.1e 9.1f 9.1g 9.1h 9.1i 9.1j 9.1k 9.1l	Information on basic physical and chemical properties:  Appearance (physical state, color, etc.): Odor: Odor threshold: pH: Melting point/freezing point (°C): Initial boiling point and boiling range: Flash point (°C): Evaporation rate: Flammability (solid, gas): Upper/lower flammability or explosive limits: Vapor pressure: Vapor density (Air =1): Relative density:	No characteristic odor.  Not determined.  3.0-5.0  Not determined.  <100°C @ 760 mm Hg.  Not applicable.  Not determined.  Not applicable.  Not applicable.  Not applicable.  Not determined.
9.1a 9.1b 9.1c 9.1d 9.1e 9.1f 9.1g 9.1h 9.1i 9.1j 9.1k 9.1l 9.1n	Information on basic physical and chemical properties:  Appearance (physical state, color, etc.): Odor: Odor threshold: pH: Melting point/freezing point (°C): Initial boiling point and boiling range: Flash point (°C): Evaporation rate: Flammability (solid, gas): Upper/lower flammability or explosive limits: Vapor pressure: Vapor density (Air =1):	No characteristic odor.  Not determined.  3.0-5.0  Not determined.  <100°C @ 760 mm Hg.  Not applicable.  Not determined.  Not applicable.  Not applicable.  Not applicable.  Not determined.  Not determined.  Not determined.  Not determined.  Soluble in water.
9.1a 9.1b 9.1c 9.1d 9.1e 9.1f 9.1g 9.1h 9.1i 9.1j 9.1k 9.1l	Information on basic physical and chemical properties:  Appearance (physical state, color, etc.): Odor: Odor threshold: pH: Melting point/freezing point (°C): Initial boiling point and boiling range: Flash point (°C): Evaporation rate: Flammability (solid, gas): Upper/lower flammability or explosive limits: Vapor pressure: Vapor density (Air =1): Relative density:	No characteristic odor.  Not determined.  3.0-5.0  Not determined.  <100°C @ 760 mm Hg.  Not applicable.  Not determined.  Not applicable.  Not applicable.  Not applicable.  Not determined.  Not determined.  Not determined.  Not determined.  Not determined.  Not determined.
9.1a 9.1b 9.1c 9.1d 9.1e 9.1f 9.1g 9.1h 9.1i 9.1j 9.1k 9.1l 9.1n	Information on basic physical and chemical properties:  Appearance (physical state, color, etc.): Odor: Odor threshold: pH: Melting point/freezing point (°C): Initial boiling point and boiling range: Flash point (°C): Evaporation rate: Flammability (solid, gas): Upper/lower flammability or explosive limits: Vapor pressure: Vapor density (Air =1): Relative density: Solubility(ies):	No characteristic odor.  Not determined.  3.0-5.0  Not determined.  <100°C @ 760 mm Hg.  Not applicable.  Not determined.  Not applicable.  Not applicable.  Not applicable.  Not determined.  Not determined.  Not determined.  Not determined.  Soluble in water.
9.1a 9.1b 9.1c 9.1d 9.1e 9.1f 9.1g 9.1h 9.1i 9.1j 9.1k 9.1l 9.1n 9.1n 9.1n	Information on basic physical and chemical properties:  Appearance (physical state, color, etc.): Odor: Odor threshold: pH: Melting point/freezing point (°C): Initial boiling point and boiling range: Flash point (°C): Evaporation rate: Flammability (solid, gas): Upper/lower flammability or explosive limits: Vapor pressure: Vapor density (Air =1): Relative density: Solubility(ies): Partition coefficient (N-octanol/water):	No characteristic odor.  Not determined.  3.0-5.0  Not determined.  <100°C @ 760 mm Hg.  Not applicable.  Not determined.  Not applicable.  Not applicable.  Not applicable.  Not determined.  Soluble in water.  Not determined.
9.1a 9.1b 9.1c 9.1d 9.1e 9.1f 9.1g 9.1h 9.1i 9.1j 9.1k 9.1l 9.1m 9.1n 9.1n 9.1n	Information on basic physical and chemical properties:  Appearance (physical state, color, etc.): Odor: Odor threshold: pH: Melting point/freezing point (°C): Initial boiling point and boiling range: Flash point (°C): Evaporation rate: Flammability (solid, gas): Upper/lower flammability or explosive limits: Vapor pressure: Vapor density (Air =1): Relative density: Solubility(ies): Partition coefficient (N-octanol/water): Auto-ignition temperature (°C): Decomposition temperature (°C):	No characteristic odor.  Not determined.  3.0-5.0  Not determined.  <100°C @ 760 mm Hg.  Not applicable.  Not applicable.  Not applicable.  Not applicable.  Not applicable.  Not determined.
9.1a 9.1b 9.1c 9.1d 9.1e 9.1f 9.1g 9.1h 9.1i 9.1j 9.1k 9.1l 9.1n 9.1n 9.1n 9.1o 9.1n	Information on basic physical and chemical properties:  Appearance (physical state, color, etc.): Odor: Odor threshold: pH: Melting point/freezing point (°C): Initial boiling point and boiling range: Flash point (°C): Evaporation rate: Flammability (solid, gas): Upper/lower flammability or explosive limits: Vapor pressure: Vapor density (Air =1): Relative density: Solubility(ies): Partition coefficient (N-octanol/water): Auto-ignition temperature (°C): Decomposition temperature (°C): Viscosity:	No characteristic odor.  Not determined.  3.0-5.0  Not determined.  <100°C @ 760 mm Hg.  Not applicable.  Not applicable.  Not applicable.  Not applicable.  Not determined.  Not determined.
9.1a 9.1b 9.1c 9.1d 9.1e 9.1f 9.1g 9.1h 9.1i 9.1j 9.1k 9.1l 9.1n 9.1n 9.1n 9.1n	Information on basic physical and chemical properties:  Appearance (physical state, color, etc.): Odor: Odor threshold: pH: Melting point/freezing point (°C): Initial boiling point and boiling range: Flash point (°C): Evaporation rate: Flammability (solid, gas): Upper/lower flammability or explosive limits: Vapor pressure: Vapor density (Air =1): Relative density: Solubility(ies): Partition coefficient (N-octanol/water): Auto-ignition temperature (°C): Decomposition temperature (°C):	No characteristic odor.  Not determined.  3.0-5.0  Not determined.  <100°C @ 760 mm Hg.  Not applicable.  Not determined.  Not applicable.  Not applicable.  Not applicable.  Not determined.



9.2a	Other physical or chemical parameters:	None.
Section	10: Stability and reactivity	
10.1	Reactivity:	No data available.
10.2	Chemical stability:	Stable under normal temperature conditions.
10.3	Possibility of hazardous reactions:	Hazardous polymerization: will not polymerize.
10.4	Conditions to avoid:	To avoid product degradation, avoid exposure to high temperatures or
		direct sunlight or light.
10.5	Incompatible materials:	Strong oxidizing substances.
10.6	Hazardous decomposition products:	None under normal conditions.
Section	n 11: Toxicological information	
11.1	Information on toxicological effects:	1.
11.1a	Name:	Hoechst 33342
11.1b	Acute toxicity:	Not determined.
11.1c	Skin corrosion/irritation:	Not determined.
11.1d	Serious eye damage/irritation:	Not determined.
11.1e	Respiratory or skin sensitization:	Not determined.
11.1f	Germ cell mutagenicity:	Toxicological studies are not yet available. In vitro DNA repair and
		inhibition tests suggest mutagenic effects in mouse fibroblasts and
		hamster lung cells. Knowledge about health hazard is incomplete.
11.1g	Carcinogenicity:	Not determined.
11.1h	Reproductive toxicity:	Not determined.
11.1i	STOT-single exposure:	Not determined.
11.1j	STOT-repeated exposure:	Not determined.
11.1k	Aspiration hazard:	Not determined.
11.11	Information on the likely routes of exposure	May enter by skin and/or eye contact; inhalation of vapors/mist/dust.
	(inhalation, ingestion, skin and eye contact):	
11.1m	Ingestion:	May cause discomfort if swallowed.
11.1n	Inhalation:	In high concentrations, vapors may irritate throat and respiratory
		system and cause coughing.
11.10	Skin contact:	Liquid may irritate skin.
11.1p	Eye contact:	Spray and vapor in the eyes may cause irritation and smarting.
11.1q	Symptoms related to the physical, chemical and toxicological characteristics:	No specific symptoms noted.
11.1r	Delayed and immediate effects as well as chronic	Not determined.
	effects from short and long term exposure:	
11.1s	Numerical measures of toxicity (such as acute	Not determined.
	toxicity estimates):	
11.1t	Interactive effects:	Not determined.
11.1u	Absence of specific data:	Not applicable.
11.1v	Mixtures:	Item is a mixture.
11.1w	Mixture vs. substance information:	See Section 3 for any substances in the mixture.
11.1x	Classification by National Toxicity Program (NTP):	Not classified.
11.1y	Classification by International Agency for Research on Cancer (IARC):	Not classified.
11.1z	Classification by OSHA 13:	Not classified.
11.1ab	Other information:	Hoechst is a suspected mutagen at high concentrations. Prolonged skin
		contact may cause redness and irritation. Because of the small quantity of product, the health hazard is small.

## Section 12: Ecological information

12.1	Toxicity:	
12.1a	Name:	Hoechst 33342.
12.1b	Ecotoxicity (aquatic and terrestrial, where available):	Not determined.
12.2	Persistence and degradability:	There are no data on the degradability of this product.
12.3	Bioaccumulative potential:	No data available on bioaccumulation.
12.4	Mobility in soil:	The product is soluble in water.
12.5	Results of PBT and vPvB assessment:	Not determined.
12.6	Other adverse effects:	No data available.



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13.1	n 13: Disposal considerations  Waste treatment methods:	When handling waste, consideration should be made to the safety
13.1	waste treatment methods.	
13.1a	Description of waste residues and information on	precautions applying to handling of the product.  Dispose of waste and residues in accordance with local authority
13.1a	their safe handling and methods of disposal,	requirements. For the safety of persons conducting disposal, recycling
	including the disposal of any contaminated	or reclamation activities, please refer to the information in Section 8
	packaging:	(exposure controls and personal protection) of the SDS.
Section	n 14: Transport information	
14.1	UN number:	Not applicable.
14.2	UN proper shipping name:	Not applicable.
14.3	Transport hazard class(es):	Not applicable.
14.4	Packing group:	Not applicable.
14.5	Environmental hazards:	
14.5a	Is it environmentally dangerous according to UN	The product is not covered by these regulations.
	Model Regulations (IMDG Code, ADR, RID, and	
	ADN)?:	
14.5b	Is it a marine pollutant according to the IMDG	No.
	code?:	
14.6	Special precautions for user:	None known.
14.7	Transport in bulk according to Annex II of	Not applicable.
	MARPOL and the IBC code:	
14.7a	Other information:	The product is not considered a dangerous good for transport.
14.7b	Classification for other modes of transport:	Contact supplier.
Section	n 15: Regulatory information	
15.1	Safety, health and environmental	
	regulations/legislation specific for the substance	
	or mixture:	
15.1a	Regional safety, health and environmental	
	regulations specific for the product in question:	
15.1b	USA SARA Components (such as 302/311/313):	Not listed.
15.1c	USA Massachusetts Right to Know:	Not listed.
15.1d	USA Pennsylvania Right to Know:	Not listed.
15.1e	USA New Jersey Right to Know:	Not listed.
15.1f	USA California Prop. 65 Components:	Not listed.
15.1g	EU Regulation 1907/2006 {REACH}:	
15.1h	Annex XIV substances subject to authorization:	Not listed.
15.1i	Substances of very high concern:	Not listed.
15.1j	Approved code of practice:	Classification and labeling of substances and preparations dangerous
		for supply. Safety data sheets for substances and preparations.
15.1k	Guidance notes:	Workplace exposure limits EH40.
15.11	EU legislation references:	(EC) No. 1272/2008 on the classification, labelling and packaging of
		substances and mixtures (CLP Regulation). EC 830/2015. Regulation
		(EC) No 1907/2006 of the European Parliament and of the Council of
		18 December 2006 concerning the Registration, Evaluation,
		Authorisation and Restriction of Chemicals (REACH), establishing a
		European Chemicals Agency, amending Directive 1999/45/EC and
		repealing Council Regulation (EEC) No 793/93 and Commission
		Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC
		and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and
45.0	Ob aminal and the action	2000/21/EC, including amendments.
15.2	Chemical safety assessment:	Not required.
15.2a	Other regulatory information:	None.
Coction	16. Other information	
	16: Other information	
16.1	Other information:	1. 12 May 2017
16.1a 16.1b	Date of revision:	12-May-2017
ID. ID	SDS number and revision:	F17-556-2-D F17-556-2-C
16.1c	Supersedes SDS number and revision:	L E17-556-2-C



16.1d	Changes made to the previous version of the SDS:	Reviewed and updated document control numbers.
16.1e	Key/legend to abbreviations and acronyms used in	ACGIH American Conference of Governmental Industrial Hygienists.
	the SDS:	ADN European Provisions concerning the International Carriage of
		Dangerous Goods by Inland Waterway.
		ADR The European Agreement concerning the International Carriage
		of Dangerous Goods by Road.
		ATE Acute Toxicity Estimate.
		BCF Bio Concentration Factor.
		CAS Chemical Abstracts Service.
		CLP Classification, Labelling and Packaging.
		CMR Carcinogen, Mutagen or Reproductive toxicant.
		COD Chemical Oxygen Demand.
		EC European Commission.
		EC50 Half maximal effective concentration.
		EH40 Resource containing the list of workplace exposure limits for use
		with the Control of Substances Hazardous to Health Regulations.
		EINECS European Inventory of Existing Commercial chemical
		Substances.
		ELINCS European List of Notified Chemical Substances.
		EU European Union.
		GHS Globally Harmonized System of Classification and Labelling of
		Chemicals.
		H Statement GHS Hazard statement.
		IATA International Air Transport Association.
		IBC Intermediate Bulk Container.
		IC50 Half maximal inhibitory concentration.
		IMDG International Maritime Dangerous Goods.
		LC50 Median lethal concentration.
		LD50 Median lethal dose.
		LogPow logarithm of the octanol/water partition coefficient.
		MARPOL 73/78 International Convention for the Prevention of
		Pollution From Ships, 1973 as modified by the Protocol of 1978.
		OEL Occupational Exposure Limit.
		OSHA Occupational Safety and Health Administration (USA).
		PBT Persistent, Bioaccumulative, and Toxic.
		PEL Permissible Exposure Limit.
		RID The Regulations concerning the International Carriage of
		Dangerous Goods by Rail.
		SADT Self-Accelerating Decomposition Temperature.
		SARA Superfund Amendments and Reauthorization Act.
		SCBA Self-Contained Breathing Apparatus.
		SDS Safety Data Sheet.
		STOT Specific Target Organ Toxicity.
		STOT-RE Specific Target Organ Toxicity - Repeated Exposure.
		STOT-SE Specific Target Organ Toxicity - Repeated Exposure.
		UN United Nations.
		USA United States of America.
		vPvB very Persistent very bioaccumulative.
16.1f	Full text of hazard statements and/or precautionary	All statements were written out in full.
10.11	statements not written out in full elsewhere:	7 III OLGANOTICO WOLLOW OUT OUT III TUII.