SAFETY DATA SHEET

(in accordance with The Hazard Communication Standard (HCS) (29 CFR 1910.1200))

Industrial Solutions Armor AR3-

Section 1: Identification.

Product identifier used on the label and Other means of identification.
Product Name: Industrial Solutions Armor AR3

Specific end use(s).
Crosslinking agent for ecocoat armor.

Uses advised against:
For professional use only.

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party.

Company:	**IGL Coatings**
Address:	No. 7, Jalan Majistret U1/26, Hicom-Glenmarie Industrial Park, Seksyen U1
City:	40150 - Shah Alam
Province:	Selangor
Telephone:	+0355690980
E-mail:	regulations@iglcoatings.com
Web:	https://iglcoatings.com/

Emergency phone number: (Monday-Friday; 08:00-18:00)

Section 2: Hazard(s) Identification.

Classification of the chemical in accordance with paragraph (d) of §1910.1200
In accordance with The Hazard Communication Standard (HCS) (29 CFR 1910.1200):
Acute toxicity (Inhalation), Category 4 : Harmful if inhaled.
Flammable liquid, Category 2 : Highly flammable liquid and vapor.
Specific target organ toxicity following a single exposure, Category 3 : May cause respiratory irritation.
Skin sensitiser, Category 1 : May cause an allergic skin reaction.

Signal word, hazard statement(s), symbol(s) and precautionary statement(s) in accordance with paragraph (f) of §1910.1200.

Symbol(s):

Signal Word:
Danger

Hazard statement(s):

H225	Highly flammable liquid and vapor.
H317	May cause an allergic skin reaction.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.

Precautionary statement(s):

P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233	Keep container tightly closed.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use carbon dioxide, dry chemical powder, water spray, alcohol resistant foam to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.

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Other hazards.
In normal use conditions and in its original form, the product itself does not involve any other risk for health and the environment.

Section 3: Composition/Information on Ingredients.

Substances.
Not applicable.

Mixtures.
Chemical name and concentration ranges of all ingredients that are classified as health hazards in accordance with paragraph (d) of §1910.1200 and that are present above their cut-off/concentration limits or ingredients that are below their cut-off/concentration limits and present a health risk:

Identifiers	Name	Concentrate	(*)Classification	
			Classification	specific concentration limit
CAS No: 28182-81-2 EC No: 500-060-2	Hexamethylene diisocyanate, oligomers	54 - 100 %	Acute Tox. 4, H332 - STOT SE 3, H335 - Skin Sens. 1, H317	-
CAS No: 540-88-5 EC No: 208-760-7 Index No: 607-026-00-7	[1] tert-butyl acetate (Mixture of isomers)	2.5 - 25 %	Flam. Liq. 2, H225	-
CAS No: 822-06-0 EC No: 212-485-8 Index No: 615-011-00-1	[1] hexamethylene-di-isocyanate	0 – 0.5 %	Acute Tox. 3 *, H331 - Eye Irrit. 2A, H319 - Resp. Sens. 1, H334 - STOT SE 3, H335 - Skin Irrit. 2, H315 - Skin Sens. 1, H317	Resp. Sens. 1, H334: C ≥ 0,5 % Skin Sens. 1, H317: C ≥ 0,5 %

(*)The complete text of the Hazard statement(s) is given in section 16 of this Safety Data Sheet.
** Minimum classification.*
*** Route of exposure cannot be excluded.*
**** Hazard statements for reproductive toxicity, the general hazard statement can be replaced by the hazard statement indicating only the property of concern.*
***** Correct classification for physical hazards could not be established.*
[1] Substance with a workplace exposure limit (see section 8.1).

Section 4: First-Aid Measures.

Description of first aid measures.
In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

Inhalation.
Take the victim into open air; keep them warm and calm. If breathing is irregular or stops, perform artificial respiration. Do not administer anything orally. If unconscious, place them in a suitable position and seek medical assistance. The use of personal protective equipment is recommended for people providing first aid (see section 8).

Eye contact.
Remove contact lenses, if present and if it is easy to do. Wash eyes with plenty of clean and cool water for at least 10 minutes while pulling eyelids up, and seek medical assistance.

Skin contact.
Remove contaminated clothing. Wash skin vigorously with water and soap or a suitable skin cleaner. NEVER use solvents or thinners.

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Ingestion.
If accidentally ingested, seek immediate medical attention. Keep calm. NEVER induce vomiting.

Most important symptoms and effects, both acute and delayed.
Irritant Product, repeated or prolonged contact with skin or mucous membranes can cause redness, blisters or dermatitis, inhalation of spray mist or particles in suspension may cause irritation of the respiratory tract, some symptoms may not be immediate.
Repeated or prolonged eye contact may cause stinging, tearing, redness, swelling, and blurred vision.
Harmful Product, prolonged exposure due to inhalation may cause anaesthetic effects and the need for immediate medical assistance.
It may cause an allergic reaction, dermatitis, redness or inflammation of the skin.

Indication of any immediate medical attention and special treatment needed.
In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious. Do not induce vomiting. If the person vomits, clear the respiratory tract.

Section 5: Fire-Fighting Measures.

The product is Highly inflammable, it can cause or considerably worsen a fire, the necessary prevention measures should be taken and risks avoided. In case of fire, the following measures are recommended:

Extinguishing media.
Suitable extinguishing media:
Extinguisher powder or CO2. In case of more serious fires, also alcohol-resistant foam and water spray.

Unsuitable extinguishing media:
Do not use a direct stream of water to extinguish. In the presence of electrical voltage, you cannot use water or foam as extinguishing media.

Special hazards arising from the mixture.
Special risks.
Fire can cause thick, black smoke. As a result of thermal decomposition, dangerous products can form: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products can be harmful to your health.

During a fire and depending on its magnitude the following may occur:
- Flammable vapors or gases.

Advice for firefighters.
Use water to cool tanks, cisterns, or containers close to the heat source or fire. Take wind direction into account. Prevent the products used to fight the fire from going into drains, sewers, or waterways. Follow the instructions given in the emergency or fire evacuation plan or plans if available.

Fire protection equipment.
According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and boots. During extinction and depending on the magnitude and proximity to the fire, additional protective equipment such as chemical protection gloves, heat-reflecting suits or gas-tight suits may be required.

Section 6: Accidental Release Measures.

Personal precautions, protective equipment, and emergency procedures.
Eliminate possible ignition points and ventilate the area. No smoking. Avoid breathing fumes. For exposure control and individual protection measures, see section 8.

Environmental precautions: Product not classified as hazardous for the environment, avoid spillage as much as possible.

Methods and materials for containment and cleaning up.
Contain and collect spillage with inert absorbent material (earth, sand, vermiculite, diatomaceous earth) and clean the area immediately with a suitable decontaminant.
Deposit waste in closed and suitable containers for disposal, in compliance with local and national regulations (see section 13).

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Reference to other sections: for exposure control and individual protection measures, see section 8, for later elimination of waste, follow the recommendations under section 13.

Section 7: Handling and Storage.

Precautions for safe handling.
The fumes are heavier than air and can spread across the ground. They can form explosive mixtures with air. Prevent the creation of flammable or explosive fume concentrations in the air; prevent fume concentrations above work exposure limits. The product must only be used in areas where all unprotected flames and other ignition points have been eliminated. Electrical equipment has to be protected according to applicable standards.
The product can be electrostatically charged: always use earth grounds when transferring the product. Operators must use anti-static footwear and clothing, and floors must be conductors.
Keep the container tightly closed and isolated from heat sources, sparks, and fire. Do not use tools that can cause sparks. For personal protection, see section 8.
In the application area, smoking, eating, and drinking must be prohibited.
Follow legislation on occupational health and safety.
Never use pressure to empty the containers. They are not pressure-resistant containers. Keep the product in containers made of a material identical to the original.

Conditions for safe storage, including any incompatibilities.
Store according to local legislation. Observe indications on the label. Store the containers between 5 and 25 º C, in a dry and well-ventilated place, far from sources of heat and direct solar light. Keep far away from ignition points. Keep away from oxidising agents and from highly acidic or alkaline materials. Do not smoke. Prevent the entry of non-authorised persons. Once the containers are open, they must be carefully closed and placed vertically to prevent spills.

Section 8: Exposure Controls/Personal Protection.

8.1 Control parameters.
Work exposure limit for:

Name	CAS No.	Country	Limit value	ppm	mg/m³
tert-butyl acetate (Mixture of isomers)	540-88-5	United States	**Eight hours**	50	
			Short term	150	
		United States [1] (Cal/OSHA)	**Eight hours**	200	
			Short term		
		United States [2] (NIOSH)	**Eight hours**	200	950
			Short term		
		United States [3] (OSHA)	**Eight hours**	200	950
			Short term		
hexamethylene-di-isocyanate	822-06-0	United States	**Eight hours**	0,005	
			Short term		
		United States [2] (NIOSH)	**Eight hours**	0,005	0,035
			Short term	0,02 (10-minute)	0,14 (10-minute)
		United States [3] (OSHA)	**Eight hours**	0,005	0,034
			Short term		

[1] California Division of Occupational Safety and Health (Cal/OSHA) Permissible Exposure Limits (PELs).
[2] National Institute for Occupational Safety and Health. NIOSH Recommendations for occupational safety and health, Compendium of Policy Documents and Statements, January, 1992, DHHS (NIOSH) Publication No. 92-100.
[3] Occupational Safety and Health Administration, United States Department of Labor. Permissible Exposure limits (PELs), California Division of Occupational Safety and Health (Cal/OSHA) Permissible Exposure Limits (PELs).
The product does NOT contain substances with Biological Limit Values.

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Concentration levels DNEL/DMEL:

Name	DNEL/DMEL	Type	Value
tert-butyl acetate (Mixture of isomers) CAS No: 540-88-5 EC No: 208-760-7	DNEL (Workers)	Inhalation, Chronic, Systemic effects	159 (mg/m³)
hexamethylene-di-isocyanate CAS No: 822-06-0 EC No: 212-485-8	DNEL (Workers)	Inhalation, Chronic, Local effects	0,035 (mg/m³)
	DNEL (Workers)	Inhalation, Chronic, Systemic effects	0,035 (mg/m³)

DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.
DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.

Exposure controls.
Measures of a technical nature:
Provide adequate ventilation, which can be achieved by using good local exhaust-ventilation and a good general exhaust system.

Concentration:	**100 %**		
Uses:	**Crosslinking agent for ecocoat armor.**		
Breathing protection:			
PPE:	Filter mask for protection against gases and particles.		
Characteristics:	«CE» marking, category III. The mask must have a wide field of vision and an anatomically designed form in order to be sealed and watertight.		
Maintenance:	Should not be stored in places exposed to high temperatures and damp environments before use. Special attention should be paid to the state of the inhalation and exhalation valves in the face adaptor.		
Observations:	Read carefully the manufacturer's instructions regarding the equipment's use and maintenance. Attach the necessary filters to the equipment according to the specific nature of the risk (Particles and aerosols: P1-P2-P3, Gases and vapours: A-B-E-K-AX), changing them as advised by the manufacturer.		
Filter Type needed:	A2		
Hand protection:			
PPE:	Protective gloves against chemicals.		
Characteristics:	«CE» marking, category III.		
Maintenance:	Keep in a dry place, away from any sources of heat, and avoid exposure to sunlight as much as possible. Do not make any changes to the gloves that may alter their resistance, or apply paints, solvents or adhesives.		
Observations:	Gloves should be of the appropriate size and fit the user's hand well, not being too loose or too tight. Always use with clean, dry hands.		
Material:	PVC (polyvinyl chloride)	Breakthrough time (min.): > 480	Material thickness (mm): 0,35
Eye protection:			
PPE:	Protective goggles with built-in frame.		
Characteristics:	«CE» marking, category II. Eye protector with built-in frame for protection against dust, smoke, fog and vapour.		
Maintenance:	Visibility through lenses should be ideal. Therefore, these parts should be cleaned daily. Protectors should be disinfected periodically following the manufacturer's instructions.		
Observations:	Some signs of wear and tear include: yellow colouring of the lenses, superficial scratching of the lenses, scraping etc.		
Skin protection:			
PPE:	Anti-static protective clothing.		
Characteristics:	«CE» marking, category II. Protective clothing should not be too tight or loose in order not to obstruct the user's movements.		
Maintenance:	In order to guarantee uniform protection, follow the washing and maintenance instructions provided by the manufacturer.		
Observations:	The protective clothing should offer a level of comfort in line with the level of protection provided in terms of the hazard against which it protects, bearing in mind environmental conditions, the user's level of activity and the expected time of use.		

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PPE:	Anti-static safety footwear.
Characteristics:	«CE» marking, category II.
Maintenance:	The footwear should be checked regularly
Observations:	The level of comfort during use and acceptability are factors that are assessed very differently depending on the user. Therefore, it is advisable to try on different footwear models and, if possible, different widths.

Section 9: Physical and Chemical Properties.

Information on basic physical and chemical properties.
Appearance: Liquid.
Colour: Colourless.
Odour: Solvent-like.
Odour threshold: Not available.
pH: Not available.
Melting point/freezing point: Not available.
Initial boiling point or boiling range: Not available.
Flash point: 22 ºC
Evaporation rate: Not available.
Flammability (solid, gas): Not available.
Lower Explosive Limit: Not available.
Upper Explosive Limit: Not available.
Vapour pressure: Not available.
Vapour density: Not available.
Relative density: Not available.
Solubility: Not soluble in water
Liposolubility: Not available.
Hydrosolubility: Not available.
Partition coefficient (n-octanol/water): Not available.
Auto-ignition temperature: Not available.
Decomposition temperature: 250 ºC
Viscosity: Not available.
Absolute density: 1139 kg/m3

Other information.
Explosive properties: Not available.
Oxidizing properties: Not available.
Pour point: Not available.
Blink: Not available.
Kinematic viscosity: Not available.

Section 10: Stability and Reactivity.

Reactivity.
The product does not present hazards by their reactivity.

Chemical stability.
Stable under the recommended handling and storage conditions (see section 7).

Possibility of hazardous reactions.
The product does not present possibility of hazardous reactions.

Conditions to avoid.
Avoid any improper handling.

Incompatible materials.
Keep away from oxidising agents and from highly alkaline or acidic materials in order to prevent exothermic reactions.

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Hazardous decomposition products.
No decomposition if used for the intended uses.

Section 11: Toxicological Information.

IRRITANT MIXTURE. The inhalation of spray mist or suspended particulates can irritate the respiratory tract. It can also cause serious respiratory difficulties, central nervous system disorders, and in extreme cases, unconsciousness.

Information on toxicological effects.
There are no tested data available on the product.
Exposure to concentrations of solvent fumes above the work exposure limit can have negative effects (for example, irritation of the mucous membranes and respiratory system, adverse effects on the kidneys, liver, and the central nervous system). Among the symptoms are headaches, vertigo, fatigue, muscular weakness, drowsiness, and in extreme cases, unconsciousness.
Based on the properties of isocyanates and taking into account existing technical data on similar products, it appears that this product may cause irritation and / or acute awareness of the respiratory system, leading to an asthmatic condition, a wheezing and chest pressure. Therefore, sensitized individuals may show asthmatic symptoms when exposed to atmospheres containing concentrations below the level of exposure. Repeated exposure can lead to chronic respiratory diseases.
a) acute toxicity;
Product classified:
Acute toxicity (Inhalation), Category 4: Harmful if inhaled.

Acute Toxicity Estimate (ATE):
Mixtures:
ATE (Inhalation) = 12 mg/l/4 h (Vapours)

b) skin corrosion/irritation;
Based on available data, the classification criteria are not met.

c) serious eye damage/irritation;
Not conclusive data for classification.

d) respiratory or skin sensitisation;
Product classified:
Skin sensitiser, Category 1: May cause an allergic skin reaction.

e) germ cell mutagenicity;
Not conclusive data for classification.

f) carcinogenicity;
Not conclusive data for classification.

g) reproductive toxicity;
Not conclusive data for classification.

h) STOT-single exposure;
Product classified:
Specific target organ toxicity following a single exposure, Category 3: May cause respiratory irritation.

i) STOT-repeated exposure;
Not conclusive data for classification.

j) aspiration hazard;
Not conclusive data for classification.
Substances present in the composition listed in the National Toxicology Program (NTP) Report on Carcinogens (RoC):
This product does not contain substances listed in the National Toxicology Program (NTP) Report on Carcinogens (RoC).
Substances present in the composition listed in the International Agency for Research on Cancer (IARC) Monographs:
This product does not contain substances listed in the International Agency for Research on Cancer (IARC) Monographs.

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Section 12: Ecological Information.

Ecotoxicity.
No information is available regarding the ecotoxicity of the substances present.

Persistence and degradability.
No information is available regarding the biodegradability of the substances present.
No information is available on the degradability of the substances present.
No information is available about persistence and degradability of the product.

Bioaccumulative potential.
Information about the bioaccumulation of the substances present.

Name	Bioaccumulation			
	Log Pow	BCF	NOECs	Level
tert-butyl acetate (Mixture of isomers) CAS No: 540-88-5 EC No: 208-760-7	1,76	-	-	Very high

Mobility in soil.
No information is available about the mobility in soil.
The product must not be allowed to go into sewers or waterways.
Prevent penetration into the ground.

Other adverse effects.
No information is available about other adverse effects for the environment.

Section 13: Disposal Considerations.

Waste treatment methods.
Do not dump into sewers or waterways. Waste and empty containers must be handled and eliminated according to current, local/national legislation.
Follow the provisions of the Resource Conservation and Recovery Act (RCRA) and the Resource Conservation and Recovery Act Information (RCRAInfo) regarding waste management.

Section 14: Transport Information.

Transport following the rules of U.S. Department of transportation Pipeline and Hazardous Materials Safety Administration.

In accordance with DOT
Not Dangerous Good.

Regulations Concerning the International Carriage of Dangerous Goods by Road (ADR)

UN number.
UN No: UN1263

UN proper shipping name.
Description:
ADR/RID: UN 1263, PAINT RELATED MATERIAL, 3, PG III
IMDG: UN 1263, PAINT RELATED MATERIAL, 3, PG III (22ºC)
ICAO/IATA: UN 1263, PAINT RELATED MATERIAL, 3, PG III

Transport hazard class(es).
Class(es): 3

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Packing group.
Packing group: III

Environmental hazards.
Marine pollutant: No
Transport by ship, FEm – Emergency sheets (F – Fire, S - Spills): F-E,S-E

Transport in bulk according to Annex II of MARPOL and the IBC Code.
The product is not transported in bulk.

Special precautions for user.
Labels: 3

Hazard number: Not applicable.
Provisions concerning carriage in bulk ADR: Not authorized carriage in bulk in accordance with ADR.
Proceed in accordance with point 6.
ADR LQ: 5 L
IMDG LQ: 5 L
ICAO LQ: 10 L

Section 15: Regulatory Information.

Safety, health and environmental regulations specific for the product.
VVOC content (p/p): 0 %
VVOC content: 0 g/l
VOC content (p/p): 10 %
VOC content: 105.971 g/l
SVOC content (p/p): .081 %
SVOC content: .858 g/l
VVOC: Very volatile organic compounds.
VOC: Volatile organic compounds.
SVOC: Semi volatile organic compounds.

Information on the TSCA Inventory (Toxic Substances Control Act) USA:

CAS No	Name	State
28182-81-2	Hexamethylene diisocyanate, oligomers	Registered9
540-88-5	tert-butyl acetate (Mixture of isomers)	Registered9
822-06-0	hexamethylene-di-isocyanate	Registered9

The product is not affected by the procedure established by the Rotterdam Convention, concerning the export and import of dangerous chemicals.

The Superfund Amendments and Reauthorization Act (SARA).
SARA Title III and it sets requirements for local and state emergency planning around hazardous chemicals, the right of the public to access information on chemical hazards in their community, and the reporting responsibilities for facilities that use, store, and / or release hazardous chemicals.

SARA Title III has four provisions (any facility with responsibilities under one section will likely have additional responsibilities under another section, consult SARA for more information):
-Emergency Planning (Sections 301-303)
-Emergency Release Notification (Section 304)
-Hazardous Chemical Storage Reporting Requirements (Section 311-312)
-Toxic Chemical Release Inventory (Section 313)

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Information related to the product:
Section 302, Extremely Hazardous Substances (EHSs)(40 CFR part 355 Appendix A and Appendix B) and section 304, in the event of an accidental chemical release that exceeds minimal Reportable Quantity (RQ):

Not Applicable.

Section 311, Requires facilities with hazardous chemicals in quantities above certain thresholds (consult OSHA for more information) to provide copies of the SDSs for those chemicals to the State Emergency Response Commission (SERC), Local Emergency Planning Committee (LEPC) and local fire department.

Section 312, Companies with chemicals in sufficient quantities to trigger obligations under Section 311 must also submit an annual emergency and hazardous chemical inventory form to the State Emergency Response Commission (SERC), Local Emergency Planning Committee (LEPC) and local fire department

Section 313, requires facilities with 10 or more employees that use certain toxic chemicals in quantities above threshold levels to report annually on the use, release and disposal of those chemicals, substances identified in section 3:

Name	Category	Category Description	Category Member
hexamethylene-di-isocyanate CAS No: 822-06-0	N120	Diisocyanates (includes 20 specific compounds)	#

Category member:
\+ Member of EPCRA Section 313 PAC category.
\# Member of EPCRA Section 313 diisocyanate category.
c Although not listed by name and CAS number, this chemical is reportable under one or more of the EPCRA section 313 chemical categories.
s Indicates that this chemical is currently under an administrative stay of the EPCRA section 313 reporting requirements, therefore, no Toxics Release Inventory reports are required until the stay is removed.
! Member of the EPCRA section 313 dioxin and dioxin-like compounds category.
X Indicates that this is a second name for an EPCRA section 313 chemical already included on this consolidated list. May also indicate that the same chemical with the same CAS number appears on another list with a different chemical name.
$ Member of the EPCRA section 313 nonylphenol category.

Visit the EPA's website for the most up-to-date information on EPCRA and other environmental considerations.

Proposition 65 warnings
Information related to The Safe Drinking Water and Toxic Enforcement Act of 1986, (better known by its original name of Proposition 65):

There are no substances in section 3 present in the list of chemicals that can cause cancer, birth defects or other reproductive harm (Proposition 65 List).

Section 16: Other Information.

Complete text of the hazard statement(s) that appear in section 3:

H225 Highly flammable liquid and vapor.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.

Classification codes:

Acute Tox. 3 : Acute toxicity (Inhalation), Category 3
Acute Tox. 4 : Acute toxicity (Inhalation), Category 4
Eye Irrit. 2A : Eye irritation, Category 2A
Flam. Liq. 2 : Flammable liquid, Category 2
Resp. Sens. 1 : Respiratory sensitiser, Category 1
STOT SE 3 : Specific target organ toxicity following a single exposure, Category 3

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Skin Irrit. 2 : Skin irritant, Category 2
Skin Sens. 1 : Skin sensitiser, Category 1

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Physical hazards	On basis of test data
Health hazards	Calculation method
Environmental hazards	Calculation method

It is advisable to carry out basic training with regard to health and safety at work in order to handle this product correctly.

Abbreviations and acronyms used:

BCF:	Bioconcentration factor.
DMEL:	Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.
DNEL:	Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.
EC50:	Half maximal effective concentration.
PPE:	Personal protection equipment.
LC50:	Lethal concentration, 50%.
LD50:	Lethal dose, 50%.
NOEC:	No observed effect concentration.

Key literature references and sources for data:
The Hazard Communication Standard (HCS) (29 CFR 1910.1200)
United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS)
https://www.osha.gov
https://www.epa.gov/
http://echa.europa.eu/

The information given in this Safety Data Sheet has been drafted in accordance with The Hazard Communication Standard (HCS) (29 CFR 1910.1200) and United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS). Employers must ensure that the SDSs are readily accessible to employees for all hazardous chemicals in their workplace.

The information in this Safety Data Sheet on the Preparation is based on current knowledge and national laws, as far as the working conditions of the users is beyond our knowledge and control. The product must not be used for purposes other than those that are specified without first having written instructions on how to handle. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established by current legislation. The information contained in this Safety Sheet only states a description of the safety requirements for the preparation, and it must not be considered as a guarantee of its properties.

-End of safety data sheet..-