SDS Service Summary

No.: CANEC23004628401 Date: 20 Jun 2023 Page 1 of 1

SGS Job No.	:	GZP23-004555
Product Name	:	SMD LED
Manufacturer / Supplier	:	SHENZHEN HONGZHISEN ELECTRONICS CO.,LTD.
Country of Origin	:	CHINA
Composition/Ingredient of product (as per applicant submission)	:	See *section 3 Composition/information on ingredients* on the SDS
Job Receiving Date	:	15 Jun 2023
SDS Preparation Period	:	15 Jun 2023-20 Jun 2023
Service Requested	:	Preparation of Safety Data Sheet (SDS) for the product with submitted information, with calculation of the classification and labeling requirement according to the submitted composition and European Commission Regulation (EC) No 1272/2008.
Summary	:	As per request, the contents and formats of the SDS are prepared in accordance with European Commission Regulation (EC) No 1907/2006, Regulation (EC) No 1272/2008 and Regulation (EU) No 2020/878, and is provided per attached.

Disclaimer

This Safety Data Sheet (SDS) is provided to applicant to fulfill European Commission Regulation (EC) No 1907/2006 and communicate the hazard information of chemicals through the supply chain to ensure safe use. It is not a test report or a certificate ensuring the safety of a product.
SGS has consolidated product information based on documents provided by Applicant (i.e. product name, the supplier details, product composition, available physical data, etc.) without independent verification from SGS. The information is provided without any warranty, express or implied, regarding its correctness.

Zm guan
Project Engineer

Safety data sheet
Regulation (EC) 1907/2006 and 1272/2008

Printing date: 20.06.2023 *Version number: 1* *Revision date: 20.06.2023*

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

· **1.1 Product identifier**

· **Trade name: SMD LED**
· **UFI:** X500-C029-G00E-DWV4

· **1.2 Relevant identified uses of the substance or mixture and uses advised against**
· **Application of the substance / the mixture:** industrial manufacture

· **1.3 Details of the supplier of the safety data sheet**
· **Manufacturer / Supplier:** SHENZHEN HONGZHISEN ELECTRONICS CO.,LTD.
· **Full address:**
SHENZHEN BAOAN DISTRICT CITY SHIYAN STREET DEZHENG ROAD BRANCH BUILDING ROOM 1811 NOBEL SEA
· **Phone number:** 0755-27395536
· **Email:** 13902449119@163.COM

· **Only Representative / other EU contact point:** Not available

· **1.4 Emergency telephone number:**
IRELAND
National Poisons Information Centre
Tel: +353 (01) 809 2566 (For healthcare professionals)
+353 (01) 809 2166 (For public; 8am - 10pm)

· **1.5 Reference Number:** CANEC23004628401,GZP23-004555

· **1.6 Remark:**
This product is likely to be classified as article with substances not intended to be released and is out of scope of a SDS as set out in Regulation (EC) No 1907/2006. This SDS is generated for applicant's reference only.

SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**
· **Classification according to Regulation (EC) No 1272/2008**



GHS08 health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Muta. 1B H340 May cause genetic defects.
Carc. 2 H351 Suspected of causing cancer.
STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.
Acute Tox. 4 H332 Harmful if inhaled.
Skin Sens. 1 H317 May cause an allergic skin reaction.

· **Information concerning particular hazards for human and environment:**
The product has to be labelled due to the calculation procedure of Regulation (EC) No.1272/2008.

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· ***Classification system:***
The classification is according to the latest edition of EU Regulation (EC) No. 1272/2008, and extended by company and literature data.

· ***2.2 Label elements***
· ***Labelling according to Regulation (EC) No. 1272/2008***
The product is classified and labelled according to the CLP regulation.
· ***Hazard pictograms***



GHS05 GHS07 GHS08

· ***Signal word*** *Danger*

· ***Hazard-determining components of labelling:***
1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione
cyclohexane-1,2-dicarboxylic anhydride
Nickel
2,2-dimethylpropane-1,3-diol
· ***Hazard statements***
H302+H332 Harmful if swallowed or if inhaled.
H318 Causes serious eye damage.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317 May cause an allergic skin reaction.
H340 May cause genetic defects.
H351 Suspected of causing cancer.
H373 May cause damage to organs through prolonged or repeated exposure.
· ***Precautionary statements***
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.
P321 Specific treatment (see on this label).
P330 Rinse mouth.
P362+P364 Take off contaminated clothing and wash it before reuse.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· ***Additional information:***
Restricted to professional users.

· ***2.3 Other hazards:***
· ***Results of PBT and vPvB assessment***
· ***PBT:*** *Not applicable*
· ***vPvB:*** *Not applicable*
· ***Determination of endocrine-disrupting properties*** *Not applicable*

SECTION 3: Composition/information on ingredients

· ***3.2 Mixtures***
· ***Description:***
Mixture of the substances listed below with nonhazardous additions.
For the wording of the listed hazard statements refer to section 16.

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· **Composition:**

CAS: 7440-50-8 EINECS: 231-159-6	Copper Substance with a Union workplace exposure limit	25.228%
CAS: 85-42-7 EINECS: 201-604-9 Index number: 607-102-00-X	cyclohexane-1,2-dicarboxylic anhydride Resp. Sens. 1, H334; Eye Dam. 1, H318; Skin Sens. 1, H317 Note: C Substance with a Union workplace exposure limit	17.206%
CAS: 2451-62-9 EINECS: 219-514-3 Index number: 615-021-00-6	1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione Acute Tox. 3, H301; Acute Tox. 3, H331; Muta. 1B, H340; STOT RE 2, H373; Eye Dam. 1, H318; Skin Sens. 1, H317; Aquatic Chronic 3, H412 Substance with a Union workplace exposure limit	13.7%
CAS: 12005-21-9 EINECS: 234-465-8	Pentaaluminium triyttrium dodecaoxide	12.921%
CAS: 65997-17-3 EINECS: 266-046-0	Glass, oxide, chemicals	11.421%
CAS: 7440-02-0 EINECS: 231-111-4 Index number: 028-002-00-7	Nickel Carc. 2, H351; STOT RE 1, H372; Skin Sens. 1, H317 Note: S, 7 Substance with a Union workplace exposure limit	6.888%
CAS: 25722-66-1	Cyanic acid, C,C'-[(1-methylethylidene)di-4,1-phenylene] ester, homopolymer	3.76%
CAS: 126-30-7 EINECS: 204-781-0	2,2-dimethylpropane-1,3-diol Eye Dam. 1, H318	3.411%
CAS: 7440-22-4 EINECS: 231-131-3	Silver Substance with a Union workplace exposure limit	2.296%
CAS: 7440-57-5 EINECS: 231-165-9	Gold	1.88%
CAS: 1344-28-1 EINECS: 215-691-6	Aluminium oxide Substance with a Union workplace exposure limit	1.249%
CAS: 7429-90-5 EINECS: 231-072-3	Aluminum Substance with a Union workplace exposure limit	0.008%
CAS: 7440-55-3 EINECS: 231-163-8	Gallium Met. Corr.1, H290; Acute Tox. 4, H302; Aquatic Chronic 3, H412	0.008%
CAS: 7440-74-6 EINECS: 231-180-0	indium STOT RE 1, H372 Substance with a Union workplace exposure limit	0.008%
CAS: 7439-95-4 EINECS: 231-104-6	Magnesium	0.008%
CAS: 7440-21-3 EINECS: 231-130-8	Silicon Substance with a Union workplace exposure limit	0.008%

· **SVHC**

85-42-7	cyclohexane-1,2-dicarboxylic anhydride
2451-62-9	1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione

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SECTION 4: First aid measures

· ***4.1 Description of first aid measures***
· ***General description:***
Immediately remove any clothing soiled by the product.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
· ***After inhalation:***
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
· ***After skin contact:*** *Immediately wash with water and soap and rinse thoroughly.*
· ***After eye contact:*** *Rinse opened eye for several minutes under running water. Then consult a doctor.*
· ***After swallowing:*** *Call for a doctor immediately.*

· ***4.2 Most important symptoms and effects, both acute and delayed:***
No further relevant information available.

· ***4.3 Indication of any immediate medical attention and special treatment needed:***
No further relevant information available.

SECTION 5: Firefighting measures

· ***5.1 Extinguishing media***
· ***Suitable extinguishing agents:*** *Use fire extinguishing methods suitable to surrounding conditions.*

· ***5.2 Special hazards arising from the substance or mixture:***
During heating or in case of fire poisonous gases are produced.

· ***5.3 Advice for firefighters***
· ***Protective equipment:*** *Mouth respiratory protective device.*

SECTION 6: Accidental release measures

· ***6.1 Personal precautions, protective equipment and emergency procedures:***
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.

· ***6.2 Environmental precautions:*** *Do not allow to enter sewers/ surface or ground water.*

· ***6.3 Methods and material for containment and cleaning up:***
Use neutralising agent.
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.

· ***6.4 Reference to other sections:***
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

· ***7.1 Precautions for safe handling:***
Thorough dedusting.
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
For the general occupational hygienic measures refer to Section 8.
· ***Information about fire - and explosion protection:*** *Keep respiratory protective device available.*

· ***7.2 Conditions for safe storage, including any incompatibilities***

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· ***Requirements to be met by storerooms and receptacles:*** *No special requirements.*
· ***Information about storage in one common storage facility:*** *Store away from foodstuffs.*
· ***Further information about storage conditions:*** *Keep container tightly sealed.*

· ***7.3 Specific end use(s):*** *No further relevant information available.*

SECTION 8: Exposure controls/personal protection

· ***8.1 Control parameters***

· **Ingredients with limit values that require monitoring at the workplace:**	
CAS: 7440-50-8 Copper (25.228%)	
MAK (Germany)	Long-term value: 0.01 A mg/m³ als Cu
VLEP (France)	Short-term value: 2** mg/m³ Long-term value: 0.2* 1** mg/m³ *fumées **poussières, en Cu
OEL (Ireland)	Long-term value: 0.2* 1** mg/m³ *fume **dusts and mists
CAS: 85-42-7 cyclohexane-1,2-dicarboxylic anhydride (17.206%)	
MAK (Germany)	vgl.Abschn.IV; Dampf und Aerosol
OEL (Ireland)	Short-term value: 0.005 mg/m³ Sens
CAS: 2451-62-9 1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione (13.7%)	
MAK (Germany)	vgl. Abschn.IV
OEL (Ireland)	Long-term value: 0.05 mg/m³ Muta1B
CAS: 7440-02-0 Nickel (6.888%)	
AGW (Germany)	Long-term value: 0.006A; 0.030E* mg/m³ 8(II);AGS, 24, Sh, Y, 10*, 31*
VLEP (France)	Long-term value: 1 mg/m³ C2
OEL (Ireland)	Long-term value: 0.5 mg/m³ Sens
CAS: 7440-22-4 Silver (2.296%)	
IOELV (EU)	Long-term value: 0.1 mg/m³
AGW (Germany)	Long-term value: 0.1 E mg/m³ 8(II);DFG, EU
VLEP (France)	Long-term value: 0.1 mg/m³
OEL (Ireland)	Long-term value: 0.1 mg/m³ IOELV
CAS: 1344-28-1 Aluminium oxide (1.249%)	
AGW (Germany)	Long-term value: 1.25* 10** mg/m³ 2(II);*alveolengängig**einatembar; AGS, DFG, Y
VLEP (France)	Long-term value: 10 mg/m³
OEL (Ireland)	Long-term value: 10* 4** mg/m³ *total inhalable **respirable dust
CAS: 7429-90-5 Aluminum (0.008%)	
AGW (Germany)	Long-term value: 1.25* 10** mg/m³ 2(II);*alveolengängig**einatembar; AGS, DFG, Y

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VLEP (France)	Long-term value: 5* 10** mg/m³ *pulvérulent **métal
OEL (Ireland)	Long-term value: 1* mg/m³ *metal, respirable fraction
CAS: 7440-74-6 indium (0.008%)	
AGW (Germany)	Long-term value: 0.0001 A mg/m³ 8(II);AGS, 10
OEL (Ireland)	Short-term value: 0.3 mg/m³ Long-term value: 0.1 mg/m³ as In
CAS: 7440-21-3 Silicon (0.008%)	
VLEP (France)	Long-term value: 10 mg/m³
OEL (Ireland)	Long-term value: 10* 4** mg/m³ *total inhalable **respirable dust

· **Regulatory information**
MAK (Germany): MAK- und BAT-Liste
VLEP (France): ED 1487 05.2021
OEL (Ireland): 2021 CoP for the Safety, Health and Welfare at Work
AGW (Germany): TRGS 900
IOELV (EU): (EU) 2019/1831
· **DNELs:** Not available
· **PNECs:** Not available

· **Ingredients with biological limit values:**	
CAS: 7429-90-5 Aluminum	
BGW (Germany)	50 µg/g Kreatinin Untersuchungsmaterial: Urin Probennahmezeitpunkt: bei Langzeitexposition: am Schichtende nach mehreren vorangegangenen Schichten Parameter: Aluminium

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**
Based on the composition shown in Section 3, the following measures are suggested for occupational safety measure.
· **Appropriate engineering controls:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.
See Section 7 for information about design of technical facilities.

· **Individual protection measures, such as personal protective equipment**
· **Respiratory protection:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
· **Hand protection:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

· **Material of gloves:**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material:**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye/face protection:**



Tightly sealed goggles

· **Body protection:** *Protective work clothing*
· **Thermal hazards:** *Not required for normal conditions of use.*
· **Environmental exposure controls:**
Control measures must be made in accordance with Community environmental protection legislation.

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**	
· **Physical state:**	*Solid*
· **Colour:**	*Black*
· **Odour:**	*Odorless*
· **Odour threshold:**	*Not available*
· **Melting point/Freezing point:**	*Not available*
· **Boiling point or initial boiling point and boiling range:**	*Not available*
· **Flammability:**	*Not available*
· **Lower and upper explosion limit**	
· **Lower:**	*Not available*
· **Upper:**	*Not available*
· **Flash point:**	*Not available*
· **Auto-ignition temperature:**	*Not available*
· **Decomposition temperature:**	*Not available*
· **pH:**	*Not available*
· **Viscosity**	
· **Kinematic viscosity:**	*Not available*
· **Dynamic viscosity:**	*Not available*
· **Solubility**	
· **Water:**	*Not available*
· **Partition coefficient n-octanol/water (log value):**	*Not available*
· **Vapour pressure:**	*Not available*
· **Density and/or relative density**	
· **Density:**	*Not available*
· **Relative density:**	*Not available*
· **Relative vapour density:**	*Not available*
· **Particle characteristics:**	*Not available*

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· **9.2 Other information**	
· **Appearance**	
· **Form:**	Solid
· **Information with regard to physical hazard classes**	
· **Explosives:**	Not applicable
· **Flammable gases:**	Not applicable
· **Aerosols:**	Not applicable
· **Oxidising gases:**	Not applicable
· **Gases under pressure:**	Not applicable
· **Flammable liquids:**	Not applicable
· **Flammable solids:**	Not applicable
· **Self-reactive substances and mixtures:**	Not applicable
· **Pyrophoric liquids:**	Not applicable
· **Pyrophoric solids:**	Not applicable
· **Self-heating substances and mixtures:**	Not applicable
· **Substances and mixtures, which emit flammable gases in contact with water:**	Not applicable
· **Oxidising liquids:**	Not applicable
· **Oxidising solids:**	Not applicable
· **Organic peroxides:**	Not applicable
· **Corrosive to metals:**	Not applicable
· **Desensitised explosives:**	Not applicable
· **Other safety characteristics:**	Not available

SECTION 10: Stability and reactivity

· **10.1 Reactivity:** No further relevant information available.

· **10.2 Chemical stability:** No further relevant information available.

· **10.3 Possibility of hazardous reactions:** No dangerous reactions known.

· **10.4 Conditions to avoid:** No further relevant information available.

· **10.5 Incompatible materials:** No further relevant information available.

· **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

· **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
· **Acute toxicity** Harmful if swallowed or if inhaled.
· **LD/LC50 values relevant for classification:** Not available
· **Skin corrosion/irritation:** Based on available data, the classification criteria are not met.
· **Serious eye damage/irritation:** Causes serious eye damage.
· **Respiratory or skin sensitization:**
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.
· **Germ cell mutagenicity:** May cause genetic defects.
· **Carcinogenicity:** Suspected of causing cancer.
· **Reproductive toxicity:** Based on available data, the classification criteria are not met.
· **STOT-single exposure:** Based on available data, the classification criteria are not met.
· **STOT-repeated exposure:** May cause damage to organs through prolonged or repeated exposure.
· **Aspiration hazard:** Based on available data, the classification criteria are not met.

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· **11.2 Information on other hazards**

· **Endocrine disrupting properties:**

None of the ingredients is listed.

· **Other information:** No further relevant information available.

SECTION 12: Ecological information

· **12.1 Toxicity**
· **Aquatic toxicity:** No further relevant information available.

· **12.2 Persistence and degradability:** No further relevant information available.

· **12.3 Bioaccumulative potential:** No further relevant information available.

· **12.4 Mobility in soil:** No further relevant information available.

· **12.5 Results of PBT and vPvB assessment**
· **PBT:** Not applicable
· **vPvB:** Not applicable
· **12.6 Endocrine disrupting properties:**
The product does not contain substances with endocrine disrupting properties.

· **12.7 Other adverse effects:** No further relevant information available.

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**
· **Recommendation:**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packaging:**
· **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

· **14.1 UN number or ID number**	
· **ADR/RID/ADN, IMDG, IATA**	Not applicable
· **14.2 UN proper shipping name**	
· **ADR/RID/ADN, IMDG, IATA**	Not applicable
· **14.3 Transport hazard class(es)**	
· **ADR/RID/ADN, IMDG, IATA**	
· **Class**	Not applicable
· **Label**	-
· **14.4 Packing group**	
· **ADR/RID/ADN, IMDG, IATA**	Not applicable
· **14.5 Environmental hazards:**	
· **Marine pollutant:**	No
· **14.6 Special precautions for user:**	Not applicable
· **Hazard identification number (Kemler code):**	-
· **14.7 Maritime transport in bulk according to IMO instruments**	Not applicable
· **14.8 Transport/Additional information:**	Not applicable

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· **UN "Model Regulation":** Not applicable

SECTION 15: Regulatory information

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

· **Directive 2012/18/EU**
· **Named dangerous substances - ANNEX I** None of the ingredients is listed.
· **Seveso category** Not applicable
· **Qualifying quantity (tonnes) for the application of lower-tier requirements** Not applicable
· **Qualifying quantity (tonnes) for the application of upper-tier requirements** Not applicable

· **REGULATION (EU) 2019/1021 on persistent organic pollutants (POP)**
None of the ingredients is listed.

· **Regulation (EU) No 649/2012**
None of the ingredients is listed.

· **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**
None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**
None of the ingredients is listed.

· **Regulation (EC) No 273/2004 on drug precursors**
None of the ingredients is listed.

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**
None of the ingredients is listed.

· **REGULATION (EC) No 1005/2009 on substances that deplete the ozone layer – ANNEX I (Ozone-depleting potential)**
None of the ingredients is listed.

· **Other regulations, limitations and prohibitive regulations**

· **SVHC Candidate List of REACH Regulation Annex XIV Authorisation (17/1/2023)**

85-42-7	cyclohexane-1,2-dicarboxylic anhydride
2451-62-9	1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione

· **REACH Regulation Annex XVII Restriction (13/12/2021)**
See Section 16 for information about restriction of use.
None of the ingredients is listed

· **REACH Regulation Annex XIV Authorisation List (8/4/2022)**
None of the ingredients is listed

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

· **Recommended restriction of use** Not applicable

· **Relevant hazard statements**
H290 May be corrosive to metals.
H301 Toxic if swallowed.
H302 Harmful if swallowed.

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H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H331 Toxic if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H340 May cause genetic defects.
H351 Suspected of causing cancer.
H372 Causes damage to organs through prolonged or repeated exposure.
H373 May cause damage to organs through prolonged or repeated exposure.
H412 Harmful to aquatic life with long lasting effects.

· **Classification according to Regulation (EC) No. 1272/2008**

Acute toxicity - oral Acute toxicity - inhalation Serious eye damage/irritation Respiratory sensitisation Skin sensitisation Germ cell mutagenicity Carcinogenicity Specific target organ toxicity (repeated exposure)	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No. 1272/2008.

· **********

The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2020/878.

DISCLAIMER OF LIABILITY
The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reason, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

· **Abbreviations and acronyms:**
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Met. Corr.1: Corrosive to metals – Category 1
Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Resp. Sens. 1: Respiratory sensitisation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
Muta. 1B: Germ cell mutagenicity – Category 1B
Carc. 2: Carcinogenicity – Category 2
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
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