SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. **Product identifier:**
5200 Series Mercury Amalgamation Powder

UFI: C213-D1WY-X00H-VVV9

1.2. **Relevant identified uses of the substance or mixture and uses advised against:**
Used to convert elemental mercury into an amalgam, which stops dangerous mercury vapours from being emitted. For industrial and professional use.

1.3. **Details of the supplier of the safety data sheet:**

Information about the manufacturer:
FyterTech Nonwovens, LLC
2121-B American Blvd
De Pere, WI 54115
Tel: (800) 615-8699
Web: www.fytertech.com
Email: cs@fytertech.com

1.3.1. Responsible person: Customer Service
E-mail: cs@fytertech.com

1.4. **Emergency telephone number:** (800) 424-9300 (USA); +1 (703) 527-3887 (International and Maritime)

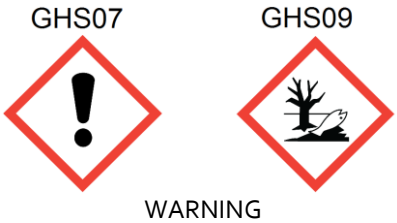
SECTION 2: HAZARDS IDENTIFICATION

2.1. **Classification of the substance or mixture:**

Classification according to Regulation (EC) No 1272/2008 (CLP):
Serious eye damage/eye irritation, Hazard Category 2 – H319
Hazardous to the aquatic environment – Acute Hazard, Category 1 – H400
Hazardous to the aquatic environment – Chronic Hazard, Category 1 – H410

Hazard statements:
H319 – Causes serious eye irritation.
H400 – Very toxic to aquatic life.
H410 – Very toxic to aquatic life with long lasting effects.

2.2. **Label elements:**



WARNING

Hazard statements:
H319 – Causes serious eye irritation.
H410 – Very toxic to aquatic life with long lasting effects.

Precautionary statements:
P264 – Wash hands, forearms and face thoroughly after handling.
P273 – Avoid release to the environment.
P280 – Wear protective gloves, protective clothing, and eye protection.
P305 + **P351** + **P338** – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + **P313** – If eye irritation persists: Get medical advice/attention.
P391 – Collect spillage.
P501 – Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. **Other hazards:**
May form combustible dust concentrations in air. Accumulation and dispersion of dust with an ignition source can cause a combustible dust explosion. Keep dust levels to a minimum and follow applicable regulations.
Exposure may aggravate pre-existing eye, skin, or respiratory conditions.
Results of PBT and vPvB assessment: Based on available data, the product does not contain any PBT or vPvB substances.
Endocrine disrupting property: Based on available data, does not contain endocrine disruptors.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. **Substances:**
Not applicable.

3.2. **Mixtures:**

Description	CAS number	EC number / ECHA list number	REACH registration number	Conc. (%)	Classification according to Regulation (EC) No 1272/2008 (CLP)		
					Pictogram, signal word code(s)	Hazard class and category code(s)	Hazard statement code(s)
Zinc powder (stabilized) Index number: 030-001-01-9	7440-66-6	231-175-3	-	91.95	GHS09 Warning	Aquatic Acute 1 Aquatic Chronic 1	H400 H410
Citric acid Index number: 607-750-00-3	77-92-9	201-069-1	-	8.05	GHS07 Warning	Eye Irrit. 2 STOT SE 3	H319 H335

For the full text of hazard statements, see Section 16.

SECTION 4: FIRST AID MEASURES

4.1. **Description of first aid measures:**
General information: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
INGESTION:
Measures:
- Rinse mouth.
- Do NOT induce vomiting.
- Obtain medical attention.

INHALATION:
Measures:
- Use proper respiratory protection, move the exposed person to fresh air at once.
- Encourage exposed person to cough, spit out, and blow nose to remove dust.
- Immediately call a poison centre, physician, or emergency medical service.

SKIN CONTACT:
Measures:
- Immediately drench affected area with water for at least 15 minutes.
- Remove contaminated clothing.
- Obtain medical attention if irritation develops or persists.

EYE CONTACT:

Measures:

- Immediately rinse with water for at least 15 minutes.
- Remove contact lenses, if present and easy to do. Continue rinsing.
- Obtain medical attention if irritation develops or persists.

4.2. Most important symptoms and effects, both acute and delayed:

Symptoms/effects: Causes serious eye irritation.

Symptoms/effects after inhalation: Dust may be harmful or cause irritation. Inhalation of dusts and fumes can cause metal fume fever. Symptoms can include a metallic or sweet taste in the mouth, sweating, shivering, headache, throat irritation, fever, chills, thirstiness, muscle aches, nausea, vomiting, weakness, fatigue, and shortness of breath.

Symptoms/effects after skin contact: Prolonged exposure may cause skin irritation. Repeated or prolonged contact will cause mechanical irritation.

Symptoms/effects after eye contact: Contact causes severe irritation with redness and swelling of the conjunctiva. May cause mechanical eye irritation.

Symptoms/effects after ingestion: Ingestion may cause adverse effects.

Chronic symptoms : None known. Zinc: Prolonged exposure to high concentrations of zinc fumes may cause "zinc shakes", an involuntary twitching of the muscles.

4.3. Indication of any immediate medical attention and special treatment needed:

If exposed or concerned, get medical advice and attention.

If medical advice is needed, have product container or label at hand.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media:

5.1.1. Suitable extinguishing media:

Use Class D extinguisher or dry table salt on metal powder fire. Use extinguishing media appropriate for surrounding fire.

5.1.2. Unsuitable extinguishing media:

Do not use water or halogenated extinguishing media. Do not use water on molten metal: explosion hazard could result.

Do not use full water jet, because it can disperse and spread fire.

5.2. Special hazards arising from the substance or mixture:

Combustible dust.

Dust explosion hazard in air.

Hazardous reactions will not occur under normal conditions. May form explosive hydrogen gas on contact with acids or alkalis. Citric acid reacts with oxidizing agents, bases, reducing agents and metal nitrates. Material is hygroscopic and will slowly absorb moisture.

In case of fire, smoke and other combustion products (zinc oxide, carbon oxides (CO, CO_2), metal oxides) may be formed; the inhalation of such combustion products can have serious adverse effects on health.

5.3. Advice for firefighters:

Exercise caution when fighting any chemical fire.

Do not enter fire area without proper protective equipment, including respiratory protection.

Do not breathe fumes from fires or vapours from decomposition.

The extinguishing water should not be allowed into drains or water courses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures:

6.1.1. **For non-emergency personnel:**

Allow only well-trained experts wearing suitable protective clothing to abide in the field of accident.

Use appropriate personal protective equipment (PPE). Evacuate unnecessary personnel.

6.1.2. **For emergency responders:**

Avoid all contact with skin, eyes, or clothing. Avoid breathing dust. Avoid generating dust. Remove ignition sources. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

Equip clean-up crew with proper protection.

Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

6.2. Environmental precautions:

Dispose of the spillage and the resulting waste according to the applicable environmental regulations. Do not allow the product and the resulting waste to enter sewers/soil/surface or ground water. Notify the respective authorities in accordance with local law in the case of environmental pollution immediately.

6.3. **Methods and material for containment and cleaning up:**

For containment: Contain solid spills with appropriate barriers and prevent migration and entry into sewers or streams. Avoid generation of dust during clean-up of spills.

Methods for cleaning up: Clean up spills immediately and dispose of waste safely. Use explosion proof vacuum during clean-up, with appropriate filter. Do not mix with other materials. Vacuum clean-up is preferred. If sweeping is required use a dust suppressant. Use only non-sparking tools. Contact competent authorities after a spill.

6.4. **Reference to other sections:**

For further and detailed information see Sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1. **Precautions for safe handling:**

Observe conventional hygiene precautions.
Avoid contact with skin, eyes and clothing.
Avoid breathing dust.
Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
Use appropriate personal protective equipment (PPE).
Observe the pertinent regulations on industrial safety and basic hygiene rules.

Technical measures:

Accumulation and dispersion of dust with an ignition source can cause a combustible dust explosion. Keep dust levels to a minimum and follow applicable regulations.

If heated to the point of fume generation, zinc fumes may cause metal fume fever. Otherwise, zinc is non-toxic. Contains a hygroscopic material which can absorb moisture from the air. This product is designed to convert elemental mercury spills into an amalgam. Please refer to the SDS of the spilled elemental mercury for appropriate mercury hazard communication information.

Avoid creating or spreading dust.

Precautions against fire and explosion:

Keep away from heat, sparks, open flames, and hot surfaces. No smoking.

7.2. **Conditions for safe storage, including any incompatibilities:**

Technical measures and storage condition:

Comply with applicable regulations.
Avoid creating or spreading dust.
Use explosion-proof electrical, ventilating, lighting equipment.
Proper grounding procedures to avoid static electricity should be followed.
Keep container closed when not in use.
Store in a dry, cool and well-ventilated place.
Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.
Protect from moisture.

Incompatible materials: See Section 10.5.

Packaging material: No special prescriptions.

7.3. **Specific end use(s):**

Used to convert elemental mercury into an amalgam, which stops dangerous mercury vapours from being emitted. For professional use only.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. **Control parameters:**

Occupational exposure limit values (Commission Directive (EC) No 2000/39 of 8 June 2000):
The components of the mixture are not regulated with exposure limit value.

DNEL values		**Oral exposure**		**Dermal exposure**		**Inhalative exposure**	
		Short term (acute)	Long term (chronic)	Short term (acute)	Long term (chronic)	Short term (acute)	Long term (chronic)
Consumer	Local	no data	no data	no data	no data	no data	no data
	Systemic	no data	no data	no data	no data	no data	no data
Worker	Local	no data	no data	no data	no data	no data	no data
	Systemic	no data	no data	no data	no data	no data	no data

PNEC values		
Compartment	Value	Note(s)
Freshwater	no data	no notes
Marine water	no data	no notes
Freshwater sediment	no data	no notes
Marine water sediment	no data	no notes
Sewage Treatment Plant (STP)	no data	no notes
Intermittent release	no data	no notes
Secondary poisoning	no data	no notes
Soil	no data	no notes

8.2. **Exposure controls:**

In case of a hazardous material with no controlled concentration limit it is the employer's duty to keep concentration levels down to a minimum achievable by existing scientific and technological means, where the hazardous substance poses no harm to workers.

8.2.1. **Appropriate engineering controls:**

In pursuance of work is proper foresight needed to avoid spilling onto clothes and floors and to avoid contact with eyes and skin. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas.

Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment. Use local exhaust or general dilution ventilation or other suppression methods to maintain dust levels below exposure limits. Power equipment should be equipped with proper dust collection devices. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen-deficient environment.

Ensure all national/local regulations are observed.

8.2.2. **Individual protection measures, such as personal protective equipment:**

Materials for protective clothing: Chemically resistant materials and fabrics.

Do not eat, drink, or smoke when using this product.

1. **Eye/face protection:** Use appropriate protective glasses (EN ISO 16321-1:2022; EN 166).
2. **Skin protection:**
    a. **Hand protection:** Use appropriate protective gloves (EN 374).
    b. **Other:** Use appropriate protective clothing.
3. **Respiratory protection:** If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.
4. **Thermal hazards:** No thermal hazards known.

8.2.3. **Environmental exposure controls:**

Avoid release to the environment.

The requirements detailed in Section 8 assume skilled work under normal conditions and usage of the product for appropriate aims. If conditions differ from normal or work is carried out under extreme conditions, an expert's advice is necessary before deciding upon further protective measures.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. **Information on basic physical and chemical properties:**

	Parameter	Value / Test method / Remarks
1.	Physical state	solid powder
2.	Colour	white - grey, fine blue, grey, or white
3.	Odour, odour threshold	odourless
4.	Melting point/freezing point	419.44 °C
5.	Boiling point or initial boiling point and boiling range	1666 °C
6.	Flammability	no data*
7.	Lower and upper explosion limit	no data*
8.	Flash point	no data*
9.	Auto-ignition temperature	no data*
10.	Decomposition temperature	no data*
11.	pH	1.18 (1 % solution)
12.	Kinematic viscosity	no data*

13. Solubility in water in other solvents	lightly soluble no data*
14. Partition coefficient n-octanol/water (log value)	no data*
15. Vapour pressure	no data*
16. Density and/or relative density	7.11 (water = 1)
17. Relative vapour density	no data*
18. Particle characteristics	no data*

9.2. **Other information:**

9.2.1. **Information with regard to physical hazard classes:**
Combustible dust. Dust explosion hazard in air.

9.2.2. **Other safety characteristics:**
VOC content: <1 %

*: The manufacturer did not carry out any tests on this parameter for the product or the results of the tests are not available at the time of publication of the data sheet, or the property is not applicable for the product.

SECTION 10: STABILITY AND REACTIVITY

10.1. **Reactivity:**
Hazardous reactions will not occur under normal conditions.
May form explosive hydrogen gas on contact with acids or alkalis.
Citric acid reacts with oxidizing agents, bases, reducing agents and metal nitrates.
Material is hygroscopic and will slowly absorb moisture.

10.2. **Chemical stability:**
Stable under recommended handling and storage conditions (see section 7).

10.3. **Possibility of hazardous reactions:**
Hazardous polymerization will not occur.

10.4. **Conditions to avoid:**
Direct sunlight, extremely high or low temperatures, and incompatible materials.
Sparks, heat, open flame and other sources of ignition.
Dust accumulation (to minimize explosion hazard).

10.5. **Incompatible materials:**
Strong acids, strong bases, strong oxidizers. Reducing agents. Metal nitrates. Sulphur. Halogens. Halogenated compounds. Alkalis.

10.6. **Hazardous decomposition products:**
None expected under normal conditions of use.
Thermal decomposition may produce: Metal oxides. Oxides of zinc. Carbon oxides (CO, CO_2).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. **Information on hazard classes as defined in Regulation (EC) No 1272/2008:**
Acute toxicity: Based on available data, the classification criteria are not met.
Skin corrosion/irritation: Based on available data, the classification criteria are not met.
Serious eye damage/irritation: Causes serious eye irritation.
Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.
Germ cell mutagenicity: Based on available data, the classification criteria are not met.
Carcinogenicity: Based on available data, the classification criteria are not met.
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: Based on available data, the classification criteria are not met.
Aspiration hazard: Based on available data, the classification criteria are not met.

11.1.1. **Summaries of the information derived from the test conducted:**
No data available.

11.1.2. **Relevant toxicological properties:**
No data available about the product.
Information about the components:
Citric acid (CAS: 77-92-9):
Acute toxicity:
LD_{50} (oral, rat): 5400 mg/kg
LD_{50} (dermal, rat): >2000 mg/kg

11.1.3. Information on likely routes of exposure:
Ingestion, inhalation, skin contact, eye contact.

11.1.4. Symptoms related to the physical, chemical and toxicological characteristics:
Symptoms/effects after inhalation: Dust may be harmful or cause irritation. Inhalation of dusts and fumes can cause metal fume fever. Symptoms can include a metallic or sweet taste in the mouth, sweating, shivering, headache, throat irritation, fever, chills, thirstiness, muscle aches, nausea, vomiting, weakness, fatigue, and shortness of breath.
Symptoms/effects after skin contact: Prolonged exposure may cause skin irritation. Repeated or prolonged contact will cause mechanical irritation.
Symptoms/effects after eye contact: Contact causes severe irritation with redness and swelling of the conjunctiva. May cause mechanical eye irritation.
Symptoms/effects after ingestion: Ingestion may cause adverse effects.
Chronic symptoms: None known. Zinc: Prolonged exposure to high concentrations of zinc fumes may cause "zinc shakes", an involuntary twitching of the muscles.

11.1.5. Delayed and immediate effects as well as chronic effects from short and long-term exposure:
Causes serious eye irritation.

11.1.6. Interactive effects:
No data available.

11.1.7. Absence of specific data:
No information.

11.2. Information on other hazards:
Endocrine disrupting properties:
Endocrine disrupting property: Based on available data, does not contain endocrine disruptors.
Other information:
No data available.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity:
Short-term (acute) aquatic hazard: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard: Very toxic to aquatic life with long lasting effects.
Information about the components:
Zinc powder (stabilized) (CAS: 7440-66-6):
LC_{50} (Pimephales promelas): 2.16 – 3.05 mg/l/96 h
EC_{50} (Daphnia magna): 0.139 – 0.908 mg/l/48 h
LC_{50} (Pimephales promelas): 0.211 – 0.269 mg/l/96 h
ErC_{50} (algae): 0.15 mg/l
Citric acid (CAS: 77-92-9):
LC_{50} (Lepomis macrochirus): 1516 mg/l/96 h

12.2. Persistence and degradability:
May cause long-term adverse effects in the environment.
Information about the components:
Citric acid (CAS: 77-92-9):
Readily biodegradable in water.

12.3. Bioaccumulative potential:
Information about the components:
Citric acid (CAS: 77-92-9):
log Pow: -1.72 (20 °C)

12.4. Mobility in soil:
No data available.

12.5. Results of PBT and vPvB assessment:
Based on available data, the product does not contain any PBT or vPvB substances.

12.6. Endocrine disrupting properties:
Endocrine disrupting property: Based on available data, does not contain endocrine disruptors.

12.7. Other adverse effects:
Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. **Waste treatment methods:**
Disposal according to the local regulations.

13.1.1. **Information regarding the disposal of the product:**
Dispose of in accordance with applicable regulations.
Avoid release to the environment. This product is hazardous to the aquatic environment. Keep out of sewers and waterways.
List of Waste Code:
No waste disposal key according to the List of Waste Code (LoW code) can be determined for this product, as only the purpose of application defined by the user enables an allocation. The LoW code number has to be determined after a discussion with a waste disposal specialist.

13.1.2. **Information regarding the disposal of the packaging:**
Dispose of in accordance with applicable regulations.
Container may remain hazardous when empty. Continue to observe all precautions.

13.1.3. **Physical/chemical properties that may affect waste treatment options shall be specified:**
No data available.

13.1.4. **Sewage disposal:**
No data available.

13.1.5. **Special precautions for any recommended waste treatment:**
No data available.

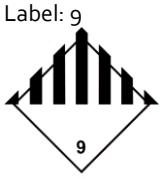
SECTION 14: TRANSPORT INFORMATION

ADR/RID; ADN; IMDG; IATA:

14.1. **UN number or ID number:**
UN 3077

14.2. **UN proper shipping name:**
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc mixture).

14.3. **Transport hazard class(es):**
Class: 9
Label: 9



14.4. **Packing group:**
III

14.5. **Environmental hazards:**
Environmentally hazardous: Yes.
Marine pollutant: Yes.

14.6. **Special precautions for user:**
No relevant information available.

14.7. **Maritime transport in bulk according to IMO instruments:**
Not applicable.

SECTION 15: REGULATORY INFORMATION

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

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 (EC) No 1999/45 and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive (EEC) No 76/769 and Commission Directives (EEC) No 91/155, (EEC) No 93/67, (EC) No 93/105 and (EC) No 2000/21

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives (EEC) No 67/548 and (EC) No 1999/45, and amending Regulation (EC) No 1907/2006

COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Contains no REACH substances with Annex XVII restrictions.
Contains no substance on the REACH candidate list.
Contains no REACH Annex XIV substances.

15.2. **Chemical safety assessment:** Has not been carried out.

SECTION 16: OTHER INFORMATION

Information regarding the revision of the safety data sheet:
Changes compared to the previous version: Sections 1.1, 1.2, 1.3, 8.2.2 and 16 of the safety data sheet have been modified.
The composition and hazard classification of the mixture did not change compared to the previous version.

This safety data sheet supersedes all previous versions according to Annex II of Regulation (EC) No 1907/2006.

Literature references / data sources:
Previous version of the safety data sheet (30. 09. 2022, version 3)

Methods used for the classification according to Regulation (EC) No 1272/2008:

Classification	Method
Serious eye damage/eye irritation, Hazard Category 2 – H319	Expert judgment, classified by the manufacturer
Hazardous to the aquatic environment – Acute Hazard, Category 1 – H400	Based on calculation method
Hazardous to the aquatic environment – Chronic Hazard, Category 1 – H410	Based on calculation method

Relevant hazard statements (code and full text) of Sections 2 and 3:
H319 – Causes serious eye irritation.
H335 – May cause respiratory irritation.
H400 – Very toxic to aquatic life.
H410 – Very toxic to aquatic life with long lasting effects.

Training advice: No data available.

Full text of the abbreviations in the safety data sheet:
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
ADR: Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE: Acute Toxicity Estimate.
AOX: Adsorbable organic halides.
BCF: Bioconcentration factor.
BOD: Biological Oxygen Demand.
CAS number: Chemical Abstract Service number.
CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.
CMR effects: Carcinogenic, mutagenic, reprotoxic effects.
COD: Chemical Oxygen Demand.
CSA: Chemical Safety Assessment.
CSR: Chemical Safety Report.
DNEL: Derived-No-Effect-Level.
ECHA: European Chemical Agency.
EC: European Community.
EC number: EINECS and ELINCS numbers (see also EINECS and ELINCS).
EEC: European Economic Community.
EEA: European Economic Area (EU + Iceland, Liechtenstein and Norway).
EINECS: European Inventory of Existing Commercial Chemical Substances.
ELINCS: European List of Notified Chemical Substances.
EN: European Norm.
EU: European Union.
EuPCS: European Product Categorisation System.

EWC: European Waste Catalogue (replaced by LoW – see below).
GHS: Globally Harmonized System of Classification and Labelling of Chemicals.
IATA: International Air Transport Association.
ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air.
IMDG: International Maritime Dangerous Goods.
IMO: International Maritime Organization.
IMSBC: International Maritime Solid Bulk Cargoes.
IUCLID: International Uniform Chemical Information Database.
IUPAC: International Union of Pure and Applied Chemistry.
Kow: n-Octanol - Water Partition Coefficient.
LC_{50}: Lethal concentration resulting in 50 % mortality.
LD_{50}: Lethal dose resulting in 50 % mortality (median lethal dose).
LoW: List of Waste.
LOEC: Lowest Observed Effect Concentration.
LOEL: Lowest Observed Effect Level.
NOEC: No Observed Effect Concentration.
NOEL: No Observed Effect Level.
NOAEC: No Observed Adverse Effect Concentration.
NOAEL: No Observed Adverse Effect Level.
OECD: Organization for Economic Cooperation and Development.
OSHA: Occupational Safety and Health Administration.
PBT: Persistent, Bioaccumulative and Toxic.
PNEC: Predicted No Effect Concentration.
QSAR: Quantitative Structure Activity Relationship.
REACH: Regulation 1907/2006/EC concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.
RID: Regulations Concerning the International Transport of Dangerous Goods by Rail.
SCBA: Self Contained Breathing Apparatus.
SDS: Safety Data Sheet.
STOT: Specific Target Organ Toxicity.
SVHC: Substances of Very High Concern.
UN: United Nations.
UVCB: Chemical Substances of Unknown or Variable Composition, Complex Reaction Products and Biological Materials.
VOC: Volatile Organic Compound.
vPvB: very Persistent and very Bioaccumulative.

This safety data sheet had been prepared on the basis of information provided by the manufacturer/supplier and conform to the relevant regulations.
The information, data and recommendations contained herein are provided in good faith, obtained from reliable sources and believed to be true and accurate as of the date issued; however, no representation is made as to the comprehensiveness of the information.
The SDS shall be used only as a guide for handling the product; in the course of handling and using the product other considerations may arise or be required.
Users are cautioned to determine the appropriateness and applicability of the above information to their particular circumstances and purposes and assume all risk associated with the use of this product.
It is the responsibility of the user to fully comply with local, national and international regulations concerning the use of this product.

Safety data sheet was prepared by:
MSDS-Europe
International branch of ToxInfo Kft.

Professional help regarding the explanation of the safety data sheet:
+36 70 335 8480; info@msds-europe.com
www.msds-europe.com