



LEAD FREE RESIN SOLDER WIRES : TIN - SILVER - COPPER - FILS RES SN-AG-CU

SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2020/878)

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

1.1. Product identifier

Product name : LEAD FREE RESIN SOLDER WIRES : TIN - SILVER - COPPER

Product code : FILS RES SN-AG-CU.

Alloy type : Sn95.5Ag3.8Cu0.7 - Sn96.5Ag3Cu0.5 - Sn99Ag0.3Cu0.7

Incorporated flux type : A0 - A11 - CR - CT2 - EL - ESM - F45 - R1 - R45 - RD - RL - RMA5 A - ROB - RSNB - RT15 - RT30 - RZ - RESO

UFI : FNQ0-X09M-2002-SXQQ

1.2. Relevant identified uses of the substance or mixture and uses advised against

Soft soldering

Use descriptor system (REACH) :

SU 3 Industrial uses : uses of substances as such or in preparations at industrial sites

PC 38 Welding and soldering products (with flux coatings or flux cores), flux products

1.3. Details of the supplier of the safety data sheet

Registered company name : MBO.

Address : Rue de la Fonderie.21800.Chevigny-Saint-Sauveur.FRANCE.

Telephone : 00 33 3 80 46 12 58. Fax : 00 33 3 80 46 66 59.

admin@mbosolder.com

www.mbosolder.com

1.4. Emergency telephone number : +33 (0)1 45 42 59 59.

Association/Organisation : INRS / ORFILA <http://www.centres-antipoison.net>.

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

This mixture does not present a health hazard with the exception of possible occupational exposure thresholds (see paragraphs 3 and 8).

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

2.2. Label elements

In compliance with EC regulation No. 1272/2008 and its amendments.

Additional labeling :

EUH210

Safety data sheet available on request.

2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) $\geq 0.1\%$ published by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

The mixture does not contains substances $\geq 0.1\%$ with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commission.

It is recommended to wear safety glasses, protective gloves, to wash hands after use and to work with a good ventilation of area, and suitable fumes extraction system locally installed.

The product could cause burns during soldering.

Its use during soldering may produce or release fumes which can be sensitizing for the respiratory system to asthmatics.

**LEAD FREE RESIN SOLDER WIRES : TIN - SILVER - COPPER - FILS RES SN-AG-CU****SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS****3.2. Mixtures****Composition :**

Identification	(EC) 1272/2008	Note	%
CAS: 7440-31-5 EC: 231-141-8 REACH: 01-2119486474-28-0033 TIN		[1]	92.00 - 98.00 %
CAS: 7440-22-4 EC: 231-131-3 REACH: 01-2119555669-21-0025 SILVER		[1]	0.20 - 3.80 %
CAS: 7440-50-8 EC: 231-159-6 REACH: 01-2119480154-42-0002 COPPER		[1]	0.40 - 0.70 %
CAS: 124-04-9 EC: 204-673-3 REACH: 01-2119457561-38-0000 ADIPIC ACID	GHS07 Wng Eye Irrit. 2, H319	[1]	0.00 - 1.00 %
CAS: 65997-06-0 EC: 266-041-3 REACH: 01-2119487113-41-0000 MODIFIED ROSIN			0.00 - 3.00 %

Specific concentration limits:

Identification	Specific concentration limits	ATE
CAS: 7440-22-4 EC: 231-131-3 REACH: 01-2119555669-21-0025 SILVER		inhalation: ATE = 5.16 mg/l 4h
CAS: 124-04-9 EC: 204-673-3 REACH: 01-2119457561-38-0000 ADIPIC ACID		oral: ATE = 5560 mg/kg BW

Information on ingredients :

(Full text of H-phrases: see section 16)

[1] Substance for which maximum workplace exposure limits are available.

SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

4.1. description of first aid measures**In the event of exposure by inhalation :**

Take affected persons into fresh air. If irritation persists, get medical attention.

In the event of splashes or contact with eyes :

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.

If there is any redness, pain or visual impairment, consult an ophthalmologist.



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In the event of splashes or contact with skin :

- Watch out for any remaining product between skin and clothing, watches, shoes, etc.
- Immediately wash with water and soap and rinse thoroughly.
- If skin irritation persists, get medical attention.
- If burns should occur from molten metal, treat for burn and get medical assistance if necessary.

In the event of swallowing :

- Seek medical attention, showing the label.

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

- No data available.

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

- No data available.

SECTION 5 : FIREFIGHTING MEASURES

- Non-flammable.

5.1. Extinguishing media

Suitable methods of extinction

- In the event of a fire, use :
 - dry chemical agents
 - sprayed water or water mist

Unsuitable methods of extinction

- In the event of a fire, do not use :
 - water jet

5.2. Special hazards arising from the substance or mixture

- A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.
- Do not breathe in smoke.
- In the event of a fire, the following may be formed :
 - metal oxides, metal dust
- Molten metal reacts violently with oxidising agents.

5.3. Advice for firefighters

- Wear full body protective clothing and appropriate self-contained breathing apparatus.
- Cool adjacent containers with water spray.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

- Consult the safety measures listed under headings 7 and 8.

For non first aid worker

- Keep persons without protective equipment away from danger area.

For first aid worker

- First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

- Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up

- Retrieve the product by mechanical means (sweeping/vacuuming).

6.4. Reference to other sections

- No data available.

**LEAD FREE RESIN SOLDER WIRES : TIN - SILVER - COPPER - FILS RES SN-AG-CU****SECTION 7 : HANDLING AND STORAGE**

Requirements relating to storage premises apply to all facilities where the mixture is handled.

7.1. Precautions for safe handling

Always wash hands after handling.

The workplace must be ventilated and fumes must be captured at the emission source.

Due to its high density, the product is heavy. Avoid the fall of the product.

Wear protective shoes and gloves.

Fire prevention :

Prevent access by unauthorised personnel.

Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Prohibited equipment and procedures :

No smoking, eating or drinking in areas where the mixture is used.

7.2. Conditions for safe storage, including any incompatibilities

No data available.

Storage

On spool, in original cardboard, at room temperature, keep away from inclemency. During 24 months

Packaging

Always keep in packaging made of an identical material to the original.

7.3. Specific end use(s)

No data available.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters****Occupational exposure limits :**

- European Union (2019/1831, 2017/2398, 2017/164, 2009/161, 2006/15/CE, 2000/39/CE, 98/24/CE) :

CAS	VME-mg/m3	VME-ppm	VLE-mg/m3	VLE-ppm	Notes
7440-22-4	0.1	-	-	-	-

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) :

CAS	TWA	STEL	Ceiling	Definition	Criteria
7440-31-5	2 mg/m3				
7440-22-4	0.1 mg/m3	-	-	-	-
7440-50-8	0.2 mg/m3	-	-	-	-
124-04-9	5 mg/m3				

- Germany - AGW (BAuA - TRGS 900, 08/08/2019) :

CAS	VME	VME	Excess	Notes
7440-22-4		0.1 E mg/m ³		8(II)
124-04-9		2E mg/m ³		2 (I)

- France (INRS - ED984 / 2020-1546) :

CAS	VME-ppm	VME-mg/m3	VLE-ppm	VLE-mg/m3	Notes	TMP No
7440-22-4	-	0.1	-	-	-	-

- UK / WEL (Workplace exposure limits, EH40/2005, Fourth Edition 2020) :

CAS	TWA	STEL	Ceiling	Definition	Criteria
7440-22-4	0.1 mg/m ³				
7440-50-8	0.2 mg/m ³	-	-	-	-

Derived no effect level (DNEL) or derived minimum effect level (DMEL):

MODIFIED ROSIN (CAS: 65997-06-0)



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Final use:

Exposure method:
Potential health effects:
DNEL :

Workers.

Dermal contact.
Long term systemic effects.
17 mg/kg body weight/day

Exposure method:
Potential health effects:
DNEL :

Inhalation.
Long term systemic effects.
117 mg of substance/m3

Final use:

Exposure method:
Potential health effects:
DNEL :

Man exposed via the environment.

Ingestion.
Long term systemic effects.
10 mg/kg body weight/day

Exposure method:
Potential health effects:
DNEL :

Dermal contact.
Long term systemic effects.
10 mg/kg body weight/day

Exposure method:
Potential health effects:
DNEL :

Inhalation.
Long term systemic effects.
35 mg of substance/m3

ADIPIC ACID (CAS: 124-04-9)

Final use:

Exposure method:
Potential health effects:
DNEL :

Workers.

Inhalation.
Short term local effects.
5 mg of substance/m3

SILVER (CAS: 7440-22-4)

Final use:

Exposure method:
Potential health effects:
DNEL :

Workers.

Inhalation.
Long term systemic effects.
0.1 mg of substance/m3

Final use:

Exposure method:
Potential health effects:
DNEL :

Consumers.

Ingestion.
Long term systemic effects.
1.2 mg/kg body weight/day

Exposure method:
Potential health effects:
DNEL :

Inhalation.
Long term systemic effects.
0.04 mg of substance/m3

TIN (CAS: 7440-31-5)

Final use:

Exposure method:
Potential health effects:
DNEL :

Workers.

Dermal contact.
Short term systemic effects.
133.3 mg/kg body weight/day

Exposure method:
Potential health effects:
DNEL :

Dermal contact.
Long term systemic effects.
133.3 mg/kg body weight/day



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Exposure method: Inhalation.
Potential health effects: Short term systemic effects.
DNEL : 11.75 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 11.75 mg of substance/m3

Final use:

Consumers.

Exposure method: Ingestion.
Potential health effects: Short term systemic effects.
DNEL : 80 mg/kg body weight/day

Exposure method: Ingestion.
Potential health effects: Long term systemic effects.
DNEL : 80 mg/kg body weight/day

Exposure method: Dermal contact.
Potential health effects: Short term systemic effects.
DNEL : 80 mg/kg body weight/day

Exposure method: Dermal contact.
Potential health effects: Long term systemic effects.
DNEL : 80 mg/kg body weight/day

Exposure method: Inhalation.
Potential health effects: Short term systemic effects.
DNEL : 3.476 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 3.476 mg of substance/m3

Predicted no effect concentration (PNEC):

MODIFIED ROSIN (CAS: 65997-06-0)

Environmental compartment: Soil.
PNEC : 0.00045 mg/kg

Environmental compartment: Fresh water.
PNEC : 0.0016 mg/l

Environmental compartment: Sea water.
PNEC : 0.00016 mg/l

Environmental compartment: Intermittent waste water.
PNEC : 0.016 mg/l

Environmental compartment: Fresh water sediment.
PNEC : 0.007 mg/kg

Environmental compartment: Marine sediment.
PNEC : 0.0007 mg/kg

Environmental compartment: Waste water treatment plant.

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PNEC :	1000 mg/l
ADIPIC ACID (CAS: 124-04-9)	
Environmental compartment:	Soil.
PNEC :	0.0228 mg/kg
Environmental compartment:	Fresh water.
PNEC :	0.126 mg/l
Environmental compartment:	Sea water.
PNEC :	0.0126 mg/l
SILVER (CAS: 7440-22-4)	
Environmental compartment:	Soil.
PNEC :	0.794 mg/kg
Environmental compartment:	Fresh water.
PNEC :	0.04 µg/l
Environmental compartment:	Sea water.
PNEC :	0.86 µg/l
Environmental compartment:	Fresh water sediment.
PNEC :	438.13 mg/kg
Environmental compartment:	Marine sediment.
PNEC :	438.13 mg/kg
Environmental compartment:	Waste water treatment plant.
PNEC :	25 µg/l

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

Avoid contact with eyes.

Before handling powders or dust emission, wear mask goggles in accordance with standard EN166.

- Hand protection

Wear suitable protective gloves in the event of prolonged or repeated skin contact.

Type of gloves recommended :

- cotton

- Body protection

Suitable type of protective clothing :

- protective work clothing
- protective shoes

Work clothing worn by personnel shall be laundered regularly.



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After contact with the product, all parts of the body that have been soiled must be washed.

- Respiratory protection

Avoid inhaling dust.

Independent breathing apparatus for respiratory protection :

It is recommended to set up a fumes exhaust system closer to their emission. In case of insufficient ventilation, wear suitable respiratory equipment. In case of formation of vapors, wear suitable respiratory equipment with filter.

- Thermal risks

The product could cause burns during soldering.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state

Physical state : Solid.

Colour

Unspecified

Odour

Odour threshold : Not stated.

Melting point

Melting point/melting range : Not specified.

Freezing point

Freezing point / Freezing range : Not stated.

Boiling point or initial boiling point and boiling range

Boiling point/boiling range : Not specified.

Flammability

Flammability (solid, gas) : Not stated.

Lower and upper explosion limit

Explosive properties, lower explosivity limit (%) : Not stated.

Explosive properties, upper explosivity limit (%) : Not stated.

Flash point

Flash point interval : Not relevant.

Auto-ignition temperature

Self-ignition temperature : Not specified.

Decomposition temperature

Decomposition point/decomposition range : Not specified.

pH

pH : Not relevant.

pH (aqueous solution) : Not stated.

Kinematic viscosity

Viscosity : Not stated.

Solubility

Water solubility : Insoluble.

Fat solubility : Not stated.

Partition coefficient n-octanol/water (log value)

Partition coefficient: n-octanol/water : Not stated.

Vapour pressure

Vapour pressure (50°C) : Not relevant.

Density and/or relative density

Density : > 1

Relative vapour density

Vapour density : Not stated.



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9.2. Other information

Density (Sn95.5Ag3.8Cu0.7) : 7.4 @ 20°C

Density (Sn96.5Ag3Cu0.5) : 7.4 @ 20°C

Density (Sn99Ag0.3Cu0.7) : 7.3 @ 20°C

Solidus / Liquidus temperature (Sn95.5Ag3.8Cu0.7) : E 217°C

Solidus / Liquidus temperature (Sn96.5Ag3Cu0.5) : 217°C / 219°C

Solidus / Liquidus temperature (Sn99Ag0.3Cu0.7) : 217°C / 228°C

Acid number (A0) : 235 - 265 mgKOH/g

Acid number (A11) : 110 - 150 mgKOH/g

Acid number (CR) : 205 - 235 mgKOH/g

Acid number (CT2) : 185 - 215 mgKOH/g

Acid number (EL) : 245 - 275 mgKOH/g

Acid number (ESM) : 200 - 260 mgKOH/g

Acid number (F45) : 190 - 210 mgKOH/g

Acid number (R1) : 195 - 225 mgKOH/g

Acid number (R45) : 290 - 330 mgKOH/g

Acid number (RD) : 165 - 185 mgKOH/g

Acid number (RL) : 170 - 190 mgKOH/g

Acid number (RMAS-A) : 230 - 270 mgKOH/g

Acid number (RSNB) : 240 - 280 mgKOH/g

Acid number (RT 15) : 371 - 401 mgKOH/g

Chloride content (A0) : no chlorine

Chloride content (A11) : 1 - 1.2 %

Chloride content (CR) : 0.9 - 1.1 %

Chloride content (CT2) : 0.35 - 0.45 %

Chloride content (EL) : no chlorine

Chloride content (ESM) : 1 - 1.5 %

Chloride content (F45) : 0.25 - 0.35 %

Chloride content (R1) : no chlorine

Chloride content (R45) : no chlorine

Chloride content (RD) : 1.15 - 1.45 %

Chloride content (RL) : 0.65 - 0.85 %

Chloride content (RMAS-A) : 0.45 - 0.55 %

Chloride content (RSNB) : no chlorine

Chloride content (RT 15) : no chlorine

Acid number (ROB) : 173 mgKOH/g

Halogen content (ROB) : 0.4%

Acid number (RT30) : 385 mgKOH/g

Halogens content (RT30) : 0.47%

Acid number (RZ) : 121 - 141 mgKOH/g

Chloride content (RZ) : no chlorine

Acid number (RES0) : 180 mgKOH/g

Chloride content (RES0) : no chlorine

9.2.1. Information with regard to physical hazard classes

No data available.

9.2.2. Other safety characteristics

No data available.



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SECTION 10 : STABILITY AND REACTIVITY

10.1. Reactivity

The product is stable under normal conditions of use and storage, but reacts with strong oxidisers.

10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

Reaction with strong oxidizers.

10.4. Conditions to avoid

Avoid :

- formation of dusts

Dusts can form an explosive mixture with air.

10.5. Incompatible materials

The product reacts with strong acids, especially with oxidisers acids.

10.6. Hazardous decomposition products

No hazardous decomposition under normal conditions of use.

SECTION 11 : TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

No data available.

11.1.1. Substances

Acute toxicity :

MODIFIED ROSIN (CAS: 65997-06-0)

Oral route :

LD50 > 5000 mg/kg

Species : Rat

Dermal route :

2,000 < LD50 <= 5000 mg/kg

Species : Rat

ADIPIC ACID (CAS: 124-04-9)

Oral route :

LD50 = 5560 mg/kg

Species : Rat

Dermal route :

LD50 > 7940 mg/kg

Species : Rabbit

Inhalation route (n/a) :

LC50 > 7.7 mg/l

Species : Rat

Duration of exposure : 4 h

COPPER (CAS: 7440-50-8)

Oral route :

LD50 >= 300 mg/kg

Species : Rat

Inhalation route (n/a) :

LC50 >= 0.733 mg/l

Species : Rat

SILVER (CAS: 7440-22-4)

Oral route :

2000 < LD50 <= 5000 mg/kg

Species : Rat

Dermal route :

2,000 < LD50 <= 5000 mg/kg



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Species : Rat

Inhalation route (n/a) :

LC50 = 5.16 mg/l

Species : Rat

Duration of exposure : 4 h

TIN (CAS: 7440-31-5)

Oral route :

2000 < LD50 <= 5000 mg/kg

Species : Rat

Dermal route :

2,000 < LD50 <= 5000 mg/kg

Species : Rat

Inhalation route (Dusts/mist) :

LC50 > 4.75 mg/l

Species : Rat

Duration of exposure : 4 h

Germ cell mutagenicity :

MODIFIED ROSIN (CAS: 65997-06-0)

Mutagenesis (in vitro) :

Negative.

Species : Bacteria

With or without metabolic activation.

Reproductive toxicant :

SILVER (CAS: 7440-22-4)

No toxic effect for reproduction

Specific target organ systemic toxicity - repeated exposure :

MODIFIED ROSIN (CAS: 65997-06-0)

Species : Rat

Duration of exposure : 90 days

11.1.2. Mixture

Acute toxicity :

No adverse health effect is expected under normal conditions of use.

Skin corrosion/skin irritation :

May cause skin irritation in case of flux projections or fumes during soldering. It is recommended to wear cotton gloves to prevent burns by projections.

Serious damage to eyes/eye irritation :

May cause eye irritation due to the fumes during soldering.

Respiratory or skin sensitisation :

Its use during soldering may produce or release fumes which can be sensitizing for the respiratory system to asthmatics.

SECTION 12 : ECOLOGICAL INFORMATION

12.1. Toxicity

Do not allow product to reach ground water, water source or sewage system.

12.1.1. Substances

TIN (CAS: 7440-31-5)

Crustacean toxicity :

EC50 = 1.303 mg/l

Species : Ceriodaphnia dubia

MODIFIED ROSIN (CAS: 65997-06-0)



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Crustacean toxicity :
EC50 = 726 mg/l
Species : Daphnia sp.
Duration of exposure : 48 h

SILVER (CAS: 7440-22-4)
Fish toxicity :
NOEC = 0.13 mg/l
Species : Menidia beryllina
Duration of exposure : 28 days

Crustacean toxicity :
NOEC = 0.001 mg/l
Duration of exposure : 7 days

Algae toxicity :
NOEC = 0.0012 mg/l
Duration of exposure : 14 days

ADIPIC ACID (CAS: 124-04-9)
Fish toxicity :
LC50 > 1000 mg/l
Species : Brachydanio rerio
Duration of exposure : 96 h

Crustacean toxicity :
EC50 = 46 mg/l
Species : Daphnia magna
Duration of exposure : 48 h

12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

12.2.1. Substances

MODIFIED ROSIN (CAS: 65997-06-0)
Biodegradability :
Rapidly degradable.

ADIPIC ACID (CAS: 124-04-9)
Biodegradability :
Rapidly degradable.

COPPER (CAS: 7440-50-8)
Biodegradability :
no degradability data is available, the substance is considered as not degrading quickly.

12.3. Bioaccumulative potential

12.3.1. Substances

SILVER (CAS: 7440-22-4)
Bioaccumulation :
BCF = 70

ADIPIC ACID (CAS: 124-04-9)
Octanol/water partition coefficient :
log K_{ow} = 0.093

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Endocrine disrupting properties

No data available.



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12.7. Other adverse effects

No data available.

SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging :

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

SECTION 14 : TRANSPORT INFORMATION

Exempt from transport classification and labelling.

14.1. UN number or ID number

-

14.2. UN proper shipping name

-

14.3. Transport hazard class(es)

-

14.4. Packing group

-

14.5. Environmental hazards

-

14.6. Special precautions for user

-

SECTION 15: Regulatory information

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

- Classification and labelling information included in section 2:

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2021/643 (ATP 16)

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2021/849 (ATP 17)

- Container information:

No data available.

- Particular provisions :

No data available.

15.2. Chemical safety assessment

No data available.



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SECTION 16 : OTHER INFORMATION

We cannot anticipate any and all conditions and situations under which the information and our products or the combination of both with others will be used. We do not assume any liability in the safety and suitability of our products alone or in combination with others. Users must make their own tests to determine the safety and suitability of each product used alone or with other products for their own use.

Except any previous written agreement, our products are sold without guarantee and customers must assume all liability for any loss or damage suffered by themselves or by third parties, either from handling or use of our products alone or with others. In case of any difference or variation seen during the use of the products we request that you contact our technical department.

Wording of the phrases mentioned in section 3 :

H319 Causes serious eye irritation.

Abbreviations :

LD50 : The dose of a test substance resulting in 50% lethality in a given time period.

LC50 : The concentration of a test substance resulting in 50% lethality in a given period.

EC50 : The effective concentration of substance that causes 50% of the maximum response.

NOEC : The concentration with no observed effect.

REACH : Registration, Evaluation, Authorization and Restriction of Chemical Substances.

ATE : Acute Toxicity Estimate

BW : Body Weight

DNEL : Derived No-Effect Level

PNEC : Predicted No-Effect Concentration

UFI : Unique formulation identifier.

STEL : Short-term exposure limit

TWA : Time Weighted Averages

TMP : French Occupational Illness table

TLV : Threshold Limit Value (exposure)

AEV : Average Exposure Value.

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.