

SAFETY DATA SHEET

Revision Date 10.12.2023
Version 5.4

SECTION 1: Chemical and corporate identification

1.1 Product identifiers

Trade name : ShieldBiso™ IMC
INCI name : ISOAMYL p-METHOXYCINNAMATE
CAS-No. : 71617-10-2

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

Identified uses : UV filters, ingredients in personal care products

1.3 Details of the supplier of the safety data sheet

Company : Bisor Corporation
5358, Huyi Road,
Shanghai, 201806, P.R.
CHINA

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1.4 Email info@bisorcare.com

1.5 Web www.bisorcare.com

SECTION 2: Composition/composition information

Chemical substance

Material	Isopentyl p-methoxycinnamate
Molecular weight	248.32 g/mol
Molecular Formula	C15H20O3
CAS No.	71617-10-2
EINECS No.	275-702-5

Mixtures

Hazardous components

Chemical Name	CAS No.	Concentration: (%)
ISOAMYL p-METHOXYCINNAMATE	71617-10-2	50≤Components≤100
DL-alpha-Tocopherol	10191-41-0	0.1≤Components≤1

SECTION 3: Hazards Identification

Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Acute aquatic toxicity, Category 1 : H400

Chronic aquatic toxicity, Category 1 : H410

Classification (67/548/EEC, 1999/45/EC) N; R50/53

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word : Warning

Hazard statements Hazard statements : H410

Very toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention:

Avoid release to the environment.

Response:

Collect spillage.

	<p>Storage:</p> <p>Store in original container.</p> <p>Keep container tightly closed and store in a dry, ventilated area.</p> <p>To maintain product quality, do not store in heat or direct sunlight.</p> <p>Opened containers must be carefully resealed and kept in an upright position to prevent leakage.</p> <p>Disposal:</p> <p>Dispose of contents/ container to an approved waste disposal plant.</p> <p>No hazardous reactions have been observed under normal conditions of use.</p> <p>Very toxic to aquatic organisms.</p> <p>Very toxic to aquatic organisms with long lasting effects.</p> <p>No data available</p>
Physical and chemical hazards	
Environmental hazard	
Other hazards	

SECTION 4: First aid measures

4.1 General advice

Leave the danger area.

Do not feed anything to an unconscious person.

4.2 If inhaled

Remove to fresh air.

4.3 Following skin contact

Wash with soap and water.

4.4 Following eye contact

Immediately flush eyes with plenty of water.

Ingestion : If possible, prevent vomiting.

4.5 Following ingestion

Prevent vomiting.

If a person vomits while lying on his/her back, place him/her on his/her side.

Do not feed anything to an unconscious person.

4.6 Most important symptoms and effects

No data available.

4.7 Special note for doctors

No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Extinguishing Methods and Extinguishing Agents

Extinguish the fire with water spray, alcohol-resistant foam, dry powder or carbon dioxide.

Extinguishing materials that cannot be used for safety reasons

High volume water spray.

5.2 Special hazards originating from this substance or mixture

Special Hazards

Do not use a strong solid stream of water as it may spread and spread the fire.

Do not allow fire water to flow into sewers and rivers.

5.3 Fire Fighting Precautions and Protective Measures

Special protective equipment for firefighters

In case of fire, wear self-contained breathing apparatus.

Other information

Do not inhale smoke or dust in case of fire and/or explosion. In case of fire and/or explosion, do not inhale smoke. Spray water to cool unopened containers. Dispose of fire residues and contaminated firefighting water in accordance with local regulations. Collect contaminated firefighting water separately and do not dispose of it down the drain.

SECTION 6:Accidental release measures

6.1 Personnel protective measures, protective equipment and emergency response procedures

Personal precautions

Ensure adequate ventilation.

6.2 Environmental precautions

Should not be released into the environment.

Prevent penetration of subsoil.

Measures may be taken to prevent further leakage or spillage if safe to do so.

Inform authorities if product contaminates rivers, lakes or sewers.

6.3 Methods and materials for containment and cleaning up

Removal method

Absorb with inert material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Seal leaks. Wipe with absorbent material, wipe off (e.g. fabric, lint).

Additional advice

If it is not possible to contain a serious spill, inform the local authorities. Spray water to suppress gas/vapors/droplets.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Precautions for safe disposal

Dispose of wash water according to local and national regulations.

Recommendations for fire and explosion prevention

Do not smoke while in use.

7.2 Conditions for safe storage, including any incompatibilities

Storage area and container requirements

Store in original container. Keep container tightly closed and store in a dry, ventilated area.

To maintain product quality, do not store in heat or direct sunlight. Opened containers must be carefully resealed and kept in an upright position to prevent leakage.

General Storage Recommendations

No special restrictions when stored with other products.

Other Physical and Chemical Properties

Will not decompose if stored and used as directed.

Specific Use

Cosmetic Ingredients.

SECTION 8: Exposure controls/personal protection

Control parameter

DNEL: Isopentyl p-methoxycinnamate:

End user	:	Operator
Route of Exposure	:	Inhalation
Potential Health Effects	:	Long-term systemic effect value: 7,05 mg/m ³
End user	:	Operator
Route of Exposure	:	Dermal contact
Potential Health Effects	:	Long Term Systemic Effect Value: 2 mg/kg bw/day
End-user	:	Consumer
Route of Exposure	:	Inhalation
Potential Health Effects	:	Long-term systemic effect value: 1,74 mg/m ³
End-user	:	Consumer
Route of Exposure	:	Dermal contact
Potential Health Effects	:	Long-term systemic effect value: 1 mg/kg bw/day
End-user	:	Consumer
Route of Exposure	:	Ingestion
Potential Health Effects	:	Long Term Systemic Effect Value: 1 mg/kg bw/day

PNEC: Isopentyl p-methoxycinnamate:

Isolation room : Fresh water
Value : 0.002 mg/l

Isolation room : Fresh water sediment
Value : 0.091 mg/kg dry weight (d.w.)

Isolation room : Seawater
Value : 0.00002 mg/l

Isolation room : Marine sediment
Value : 0.00906 mg/kg dry weight (d.w.)

Isolation room : Wastewater treatment plant/installation
Value : 100 mg/l

Isolation room : Soil
Value : 0.018 mg/kg dry weight (d.w.)

Personal Protective Equipment

Respiratory protection : PPE is generally not required.
Hand protection : Wear chemical-resistant gloves, e.g., level 2 neoprene or level 6 butyl rubber safety gloves.
Eye Protection : Safety glasses.
Skin and body protection : Remove contaminated clothing and wash before reuse.
Hygiene measures : Wash hands before resting and immediately after handling the product.
Protection : Do not eat, drink or smoke while in use.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Clear liquid
Color	Colorless to pale yellow
Odour	Characteristic odor
Odor threshold	No data available
Water solubility (g/l)	0,00025 Method: OECD Test Guideline 105
Density/relative density	1,0380 - 1,0420 at Density at 20 °C vs. 4 °C
Bulk density	Not applicable
Vapor density	Not measured 0.000066 hPa at 25 °C
Vapor pressure	Method: OECD Test Guideline 104 < 1 kPa calculated at 50 °C.
Melting point / Freezing point	Melting point / Melting point range 3.5°C at 1.009 hPa approx. 343,5 °C at 1.013 hPa
Boiling point	Method: OECD Test Guideline 103 Good laboratory practice: No
Octanol/water partition coefficient	log Pow: 4.95
pH value	not applicable approx. 55,9 mPa.s at 20 °C Method: OECD 114
Dynamic viscosity	Good laboratory practice: No approx. 19,1 mPa.s at 40 °C Method: OECD 114 Good laboratory practice: No
Evaporation rate	Less than butyl acetate evaporation rate = 1
Flammability (solid, gas)	Not applicable.
Autoignition temperature	430 °C at 1.013 hPa
Decomposition temperature	No data available.
Oxidizing properties	This substance or mixture is not classified as an oxidizer.
Explosive properties	Based on its structure, this product is classified as non-explosive.

Lower explosion limit

Upper explosion limit

Vapors may form explosive mixtures with air.

Vapors may form explosive mixtures with air.

A final assessment of the potential explosion hazard can only be carried out on a case-by-case basis when accurate information is available on the handling of the product, the production set-up and the environment in which the product is used.

9.2 Other physical and chemical properties

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Stability

No data available

10.3 Hazardous reactions

No hazardous reactions have been observed under normal conditions of use.

10.4 Conditions to be avoided

No data available

10.5 Incompatible substances to be guarded against

No data available

10.6 Hazardous decomposition products

No data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity :	: LD50 rat: > 5000 mg/kg
Acute inhalation toxicity	: No data available
Acute dermal toxicity	: LD50 rat: > 20.000 mg/kg, OECD Test Guideline 402
Repeated exposure toxicity	: No data available
Acute toxicity (other routes of exposure)	: No data available
Skin irritation :	: Rabbits: no skin irritation
Eye irritation	: Rabbit: no eye irritation Bovine cornea: no eye irritation Eggs: no eye irritation
Sensitization	: Guinea pig: no sensitizing effect
Mutagenicity	: No mutagenic effects have been observed in animal studies.
Carcinogenicity	: No data available
Reproductive toxicity	: No data available
Teratogenicity	: No data available
Specific target organ system toxicity (single exposure)	: No data available
Specific target organ system toxicity(repeated exposure)	: No data available
Inhalation hazard	: No data available

SECTION 12: Ecological information

12.1 Ecotoxicity

Acute toxicity Aquatic invertebrates

EC50: 0,28 mg/l/48 h; Daphnia magna Straus (Daphnia magna), Directive 67/548/EEC, Appendix V, C2.

Toxicity to aquatic plants

ErC50: 0,2 mg/l/72 h; Desmodesmus subspicatus (green algae), Directive 67/548/EEC, Appendix V, C3.

NOEC: 0,06 mg/l/72 h; Desmodesmus subspicatus (green algae), Directive 67/548/EEC, Appendix V, C3.

Toxicity to microorganisms

EC50: > 10.000 mg/l/3 h; Activated sludge, OECD 209

12.2 Persistent and degradable

Rapidly biodegradable. 83 %/28 d, OECD 301E

12.3 Bioaccumulation potential

Bioconcentration factor (BCF) : 662,00 (calculated)

12.4 Mobility in soil

No data available

12.5 Evaluation of results for PBT and vPvB

The substance is not persistent, bioaccumulative or toxic (PBT).

The substance is not highly persistent and highly bioaccumulative (vPvB).

The substance/mixture does not contain more than 0.1% Persistent, Bioaccumulative and Toxic (PBT) or Highly Persistent and Highly Bioaccumulative (vPvB).

12.6 Other environmentally harmful effects

Very toxic to aquatic organisms with long lasting effects.

SECTION 13: Disposal considerations

Waste disposal methods

- | | | |
|------------------------|---|--|
| Products | : | Recycle as much as possible without disposal or incineration.
If recycling is not feasible, follow local regulations. |
| Contaminated packaging | : | Empty the residue.
Dispose of as unused product. |

SECTION 14: Transport information

14.1 UN No.

ADR-European Agency for Road Transport	: 3082
Code for the International Carriage of Dangerous Goods by Rail(RID)	: 3082
International Maritime Dangerous Goods Code (IMDG)	: 3082
Air Transportation (IATA-DGR)	: 3082

14.2 United Nations shipping name

ADR-European Agency for Road Transport	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,N.O.S.(ISOAMYL PMETHOXYCINNAMATE)
Regulation concerning the International Carriage of Dangerous Goods by Rail (RID)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,N.O.S.(ISOAMYL PMETHOXYCINNAMATE)
International Maritime Dangerous Goods (IMDG)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,N.O.S.(ISOAMYL PMETHOXYCINNAMATE) MP
Air transportation (IATA-DGR)	: Environmentally hazardous substance, liquid, n.o.s. (ISOAMYL PMETHOXYCINNAMATE)

14.3 Transportation Hazard Classes

ADR-European Agency for Road Transport	: 9
Regulations for the International Carriage of Dangerous Goods by Rail (RID)	: 9
International Maritime Dangerous Goods Code (IMDG)	: 9
Air transportation (IATA-DGR)	: 9

14.4 Packing group

ADR-European Agency for Road Transportation.	
Package group	: III
Dangerous goods number	: M6
Dangerous Goods Code	: 90
Marking	: 9
Tunnel Transportation Restriction Code	: (-)

Regulations for the International Transportation of Dangerous Goods by Rail (RID).

Package group	:	III
Dangerous goods number	:	M6
Dangerous Goods Number	:	90
Marking	:	9

International Maritime Dangerous Goods Code (IMDG).

Package group	:	III
Marking	:	9
EmS Emergency Procedures in the Event of a Transportation Incident - EmS Emergency Procedures in the Event of a Transportation Incident	:	F-A, S-F

Air Freight (IATA-DGR).

Packing Instructions (Cargo Aircraft)	:	964
Quantity/Package (Freighter)	:	450,00 L
Packing Instructions (Passenger Aircraft)	:	964
Quantity/Package (Passenger Aircraft)	:	450,00 L
Package group :	:	III
Marking	:	9

14.5 Environmental hazards

ADR-European Agency for Road Transport.

Environmentally hazardous	:	Yes
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Regulations for the International Transport of Dangerous Goods by Rail(RID).

Environmentally hazardous	:	Yes
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International Maritime Dangerous Goods Code (IMDG).

Marine Pollutants (Yes/No)	:	Yes
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Air Cargo (IATA-DGR).Environmentally hazardous	:	Yes
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14.6 Special precautions

No data available

14.7 By-laws II and IBC Rules as per MARPOL 73/78 Convention

Not applicable

SECTION 15: Regulatory information

15.1 Regulations/laws that specialize in the safety, health and environment of this substance or mixture.

Applicable regulations

Law on Prevention and Control of Environmental Pollution by Solid Waste

Emergency Response Law

Administrative Rules for the Transportation of Dangerous Goods by Railway

Administrative Rules on Transportation of Dangerous Goods by Road

Regulations on the Transportation of Dangerous Goods by Waterway

Regulations on the Management of Dangerous Goods in Ports

Regulations on Safety Management of Dangerous Chemicals

Regulations on the Safe Use of Chemicals in the Workplace

Classification and Labeling of Chemicals (GB 30000)

Fire Services Law

Chemical Safety Evaluation

This substance has undergone a chemical safety evaluation.

SECTION 16: Other information

Full text of the hazard statements referred to in Sections 2 and 3 of the MSDS.

H317 May cause allergic skin reactions.

H400 Very toxic to aquatic organisms.

H410 Very toxic to aquatic organisms with long lasting effects.

16.1 Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Bisor Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.bisorcare.com