

SaSafety Data Sheet

Product Name : Cooling agent (WS-23)	Prepared according to GB/T 17519 and GB/T 16483
Creation Date: 8 September, 2018	Revision Date: 8 September, 2018

SECTION 1 Identification of the chemical and supplier

Synonyms:

2-Isopropyl-N, 2, 3-trimethylbutyramide

CAS No. : 51115-67-4

EC No. : 256-974-4

Telephone number: +8618091843361

E-mail address:

Felicia@Imaherb.com

Emergency phone number:

+8618091843361

Name of the company :

XI'AN AOGU BIOTECH CO., LTD.

Address of the company :

Room 606, Jinye shidai, Hi-Tech Industrial Zone, Xian Shaanxi China.

Post code: 710065

Fax number : +86-29-89121514

Recommended Uses: No information available**Restrictions on Use:** No information available

SECTION 2 Hazards identification

Emergency overview : Swallowing is harmful.

Hazard classification according to GHS:

Acute toxicity - Oral | Category 4

Label elements

Hazard pictograms:



Signal word :

Warning

Hazard statements :

H302 | Harmful if swallowed

Precautionary statements

Prevention:

P270 | Do not eat, drink or smoke when using this product.

P264 | Wash ... thoroughly after handling.

Response :

P301+P312 | IF SWALLOWED: Call a POISON CENTER/doctor/...if you feel unwell.

P330 | Rinse mouth.

Storage: No information available

Disposal

P501 | Dispose of contents/container to an approved waste disposal plant.

Hazard description

Physical and chemical hazards : No information available

Health hazards : Harmful if swallowed.

Environmental hazards: No information available

SECTION 3 Composition/information on ingredients

Component	Concentration/Range	CAS No.
2-Isopropyl-N, 2, 3-tri methylbutyramide	99.5%	51115-67-4

SECTION 4 First aid measures**Description of first aid measures**

General advice : Consult a physician. Show this safety data sheet to the doctor in attendance.

Skin contact : Wash off with soap and plenty of water. Consult a physician.

Eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Inhalation : If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Advice for protecting the rescuer: No information available

Special note to the doctor: No information available

SECTION 5 Firefighting measures

Hazard characteristics: No information available

Extinguishing method and media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media: Use a medium such as an ethanol foam, dry chemical or carbon dioxide when a small (initial) fire occurs. Use large amounts of (flood) water for spray application; water column may be ineffective. Use a large amount of water to cool all affected containers.

Unsuitable annihilator: Water (may expand the disaster), but water can be used to keep the container cool in the fire field.

Fire precautions and measures

Advice for firefighters : Wear self-contained breathing apparatus for fire fighting if necessary. Spray water to cool unopened containers.

Fire extinguishing method: Use a medium such as an ethanol foam, dry chemical or carbon dioxide when a small (initial) fire occurs. Use a large amount of water to cool all affected containers.

SECTION 6 Accidental release measures measures**Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge

into the environment must be avoided.

Methods and materials for containment and cleaning up

Quickly evacuate the contaminated area to the safety zone, and quarantine, strict access restrictions. Small leakage: adsorption or absorption with sand or other non-combustible materials. Can also be washed with a large amount of water, wash water dilution into the wastewater system. Massive leakage: building a berm or digging pit for shelter. Cover with foam to reduce steam hazard. Use explosion-proof pump to transfer to tank car or special collector, recycle or transport to waste disposal site for disposal.

Preventive measures for secondary hazards: Remove all fire sources. A fire extinguisher should be prepared in the event of a fire. Use fireproof tools and explosion-proof equipment.

SECTION 7 Handling and storage

Precautions for handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure – obtain special instructions before use. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.

Precautions for storage

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

SECTION 8 Exposure controls/personal protection

Control parameters

Occupational Exposure limit values: No information available

Biological limit values : No information available

Monitoring methods : No information available

Engineering controls : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Respiratory protection: In high concentration contact, the self-suction filter type mask (half mask) should be worn. When emergency situations are saved or evacuated, it is recommended to wear a respirator. According to local and government regulations, use governmental standards of respirators.

Eye protection: Wear chemical safety glasses when necessary. Wear a mask when necessary. Contact lenses can cause a special kind of damage; soft contact lenses may absorb and enrich the stimulants.

Skin and body protection: Wear safety shoes or safety boots (such as rubber materials). Anti permeable clothing, flame retardant and antistatic protective clothing, the type of protective equipment must be selected according to the concentration and content of the dangerous objects in the specific workplace.

Hand protection: Wear chemical protective gloves, eg rubber oil resistant gloves.

Other protection: No smoking at work. After work, shower and change clothes. Pay attention to personal hygiene.

SECTION 9 Physical and chemical properties

Appearance : White crystalline solid	
PH: No information available	Odor : The cool taste of mint
Initial boiling point and boiling range(°C):	Melting point/freezing point(°C): 61.7°C

233°C at 760 mmHg	
Vapor density(Air=1) : No information available	Odor threshold: No information available
Vapor pressure(kPa) :No information available	Relative density(Water=1): 0.854 g/cm ³
Evaporation rate: No information available	Viscosity: No information available
Flash point(°C) : 132°C	n-octanol/water partition coefficient : No information available
Decomposition temperature(°C) : No information available	Auto-ignition temperature(°C): No information available
Upper/lower explosive limits[%(v/v)]:No information available	
Solubility(mg/L) : No information available	Flammability(solid, gas) : No information available

SECTION 10 Stability and reactivity

Stability: Stable under proper usage and storage conditions.

Possibility of hazardous reactions : Electrostatic discharge, heat, humidity, etc.

Conditions to avoid: No information available

Incompatible materials: Strong oxidant, strong acid, strong base.

Decomposition products : No information available

SECTION 11 Toxicological information

Acute toxicity

LD50(oral): No information available.

Carcinogenicity : No information available.

Skin corrosion/irritation: skin sensibility

Serious eye damage/irritation : No information available.

Skin sensitization: No information available.

Respiratory sensitization: No information available.

Germ cell mutagenicity : No information available.

Reproductive toxicity: No information available.

stot-single exposure: No information available.

stot-repeated exposure: No information available.

Aspiration hazard: No information available.

SECTION 12 Ecological information

Toxicity: No information available.

Persistence and degradability: No information available.

Bioaccumulative potential: No information available.

Mobility in soil: No information available.

Other deleterious effect: No information available.

SECTION 13 Disposal considerations

Waste treatment methods: The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not

discharge to sewer systems.

Disposal considerations: Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

SECTION 14 Transport information

UN number : Non-hazardous chemicals

UN proper shipping name: No information available.

Transport hazard class: No information available.

Packing group: No information available.

Label : No information available.

Marine pollutant (Yes or no) : No

Precautions for transport:

Transport vehicles shall be equipped with corresponding types and quantities of fire fighting equipment and leakage emergency handling equipment. In summer it is best to transport sooner or later. The tank car used in transportation shall have a grounding chain, and a hole partition can be arranged in the slot to reduce the static electricity generated by the shock. No mixed transportation with oxidants, alkalines, food chemicals, etc. Transportation should prevent exposure to the sun, Rain Water wet, high temperature. Stopover should be away from fire, heat source, high temperature area. The exhaust pipe of the vehicle carrying the article must be equipped with fire arrester and the handling of spark-prone mechanical equipment and tools shall be prohibited. Road transportation should follow the prescribed route, not in residential areas and heavy population Stay in a dense area. No slip should be allowed in railway transportation. Wooden ships and cement ships are prohibited for bulk transport.

SECTION 15 Regulatory information

Chinese chemical inventory

Component	A	B	C	D	E	F
2-Isopropyl-N,2,3-trimethylbutyramide	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Component	G	H	I	J	K	L
2-Isopropyl-N,2,3-trimethylbutyramide	Not Listed	Not Listed	Listed	Not Listed	Not Listed	Not Listed

【A】 Catalog of Hazardous Chemicals(2015 Edition), Notice 5th 2015, China State Administration of Work Safety.

【B】 Catalog of Priority Hazardous Chemicals for Environment Management, Notice 33th 2014, Ministry of Environmental Protection of PRC.

【C】 List of Toxic Chemicals Restricted to be Imported/Exported in China (2018 Edition), Notice 74th 2017, Ministry of Environmental Protection of PRC.

【D】Catalog of Stupefacient and Psychotropic Substances(2013 Edition) Notice 230th 2013, China Food and Drug Administration.

【E】Catalog of Hazardous Chemicals for Priority Management (2013 Edition), China State Administration of Work Safety.

【F】Dangerous Chemicals Directory Used to Manufacture Exploder(2017 Edition), Notice 11th May. 2017, Ministry of Public Security of PRC.

【G】Catalog of Highly Toxic Chemicals, Notice 142th 2003, China Ministry of Health.

【H】National Directory of Hazardous wastes, Order no. 39 of the ministry of environmental protection, effective August 1st 2016

【I】List of existing Chemicals in China, Ministry of Environmental Protection notice No. 1 of 2013.

【J】List of highly toxic chemicals(2015 Edition), State Safety Supervision Bureau.

【K】Major hazard source identification, GB18218-2009

【L】Comprehensive Directory on Environmental Protection (2015 Edition), Ministry of Environmental Protection of PRC.

SECTION 16 Other information

Revision explanation

This Safety Data Sheet(SDS)was prepared according to standards of 《Safety data sheet for chemical products-content and order of sections 》 (GB/T 16483-2008)and 《 Guidance on the compilation of safet data sheet for chemical products》 (GB/T 17519-2013). The result of GHS classification according to 《Guidance on the Catalog of Hazardous Chemicals(2015 Edition) (trial)》 and series standards of 《 Rules for classification and labelling of chemicals》 (GB 30000. 2-2013~ GB 30000. 29-2013).

Disclaimer

This Safety Data Sheet (SDS) was prepared according to GB/T16483 and GB/T17519. The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user' s reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.