

SAFETY DATA SHEET

SECTION 1: Identification of the hazardous chemical and of the supplier

Product identifier

Product Code(s) 5199
UN number or ID number UN1210

Pure substance/ mixture Mixture

Details of the supplier of the safety data sheet

Company

Inkminic Logo Technology
(Guangzhou) Co., Ltd

Emergency telephone number

AMBIPAR: 020-32954560 (24 Hours)Recommended use of the chemical and restrictions on use

Recommended use Additive

Restrictions on use No information available

Section 2: Hazard identification

Emergency Overview

Irritating to skin

Irritating to eyes

Vapors may cause drowsiness and dizziness

HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames

Color colorless

Physical state Liquid

Odor Solvent

Classification of the substance or mixture

Flammable liquids	Category 2
Acute toxicity - Oral	Category 5
Acute toxicity - Dermal	Category 5
Skin corrosion/ irritation	Category 2
Serious eye damage/ eye irritation	Category 2
Specific target organ toxicity - Single exposure	Category 3

Label elements



Signal word

Danger

Contains Methyl ethyl ketone, Acetone

Hazard statements

Highly flammable liquid and vapor

May be harmful if swallowed

May be harmful in contact with skin

Causes skin irritation

Causes serious eye irritation

May cause drowsiness or dizziness

Precautionary statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/ protective clothing/ eye protection/ face protection

Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray

Use only outdoors or in a well-ventilated area

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

Keep container tightly closed

Ground/ bond container and receiving equipment

Use explosion-proof electrical/ ventilating / lighting / equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Keep cool

Response

Call a POISON CENTER or doctor/physician if you feel unwell

Specific treatment

IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

If skin irritation occurs: Get medical advice/attention

IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

In case of fire: Use CO₂, dry chemical, or foam for extinction

Storage

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

Store locked up

Keep container tightly closed

Disposal

Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

Physical and chemical hazards

Highly flammable liquid and vapor. Will be easily ignited by heat, sparks or flames. Vapors may form explosive mixtures with air. Vapors can travel considerable distances to a source of ignition where they can ignite, flash back, or explode. Runoff to sewer may create fire or explosion hazard. Containers may explode when heated.

Health hazards

Immediate Health Effects: If large quantities of this material are swallowed, call a physician immediately. If symptoms persist, call a physician. Causes skin irritation (pain, redness and swelling). Causes severe irritation (tears, blurred vision and redness).

Irritating, but will not permanently injure eye tissue. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Chronic effects: Not applicable.

Environmental hazards

Not applicable

Other hazards which do not result in classification

Repeated exposure may cause skin dryness or cracking

Section 3: Composition and information on ingredients

Substance

Not applicable.

Mixture**Chemical nature**

Preparation.

Chemical name	Weight-%	CAS No
Methyl ethyl ketone	90 - 100	78-93-3
Acetone	5 - 10	67-64-1

Section 4: First-aid measures

Description of necessary first aid measures**General advice**

Show this safety data sheet to the doctor in attendance.

Inhalation

Remove to fresh air. IF exposed or concerned: Get medical advice/attention. Get medical attention immediately if symptoms occur.

Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Skin contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists.

Ingestion

Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.

Most important symptoms/effects, acute and delayed

Burning sensation. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

For emergency responders

Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

Note to physicians

Treat symptomatically.

Section 5: Fire-fighting measures

Extinguishing media

Suitable Extinguishing Media

Dry chemical. Carbon dioxide (CO₂). Water spray. Alcohol resistant foam.

Unsuitable extinguishing media

Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the chemical

Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective actions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions

Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.

For emergency responders

Use personal protection recommended in Section 8.

Environmental precautions

Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Methods and material for containment and cleaning up

Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

Precautions to prevent secondary hazards

Clean contaminated objects and areas thoroughly observing environmental regulations.

Other information

Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

Section 7: Handling and storage

Precautions for safe handling

Use personal protection equipment. Avoid breathing vapors or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label

instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing. See Section 8 for information on appropriate personal protective equipment.

Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

SECTION 8: Exposure controls and personal protection

Occupational exposure limits

Chemical name	China	ACGIH TLV
Methyl ethyl ketone 78-93-3 (90 - 100)	TWA: 300 mg/m ³ STEL: 600 mg/m ³	STEL: 300 ppm TWA: 200 ppm
Acetone 67-64- 1 (5 - 10)	TWA: 300 mg/m ³ STEL: 450 mg/m ³	STEL: 500 ppm TWA: 250 ppm

Biological occupational exposure limits

Chemical name	Biological standards	Monitoring and observation processes	ACGIH
Methyl ethyl ketone - 78-93-3			2 mg/L
Acetone - 67-64- 1	50 mg/L		25 mg/L

Monitoring and observation processes

No applicable information was found.

Engineering controls

Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/ face protection

Wear safety glasses with side shields (or goggles). If splashes are likely to occur, wear safety glasses with side-shields.

Skin and body protection

Wear suitable protective clothing. Long sleeved clothing.

Hand protection

Wear suitable gloves. Impervious gloves.

Respiratory protection

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations

Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing.

Section 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Color	colorless
Physical state	Liquid
Odor	Solvent
Odor threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No data available	
Melting point / freezing point	-85 °C	
Initial boiling point and boiling range	55 °C	
Flash point	- 16 °C	
Evaporation rate	No data available	None known
Flammability	NOT APPLICABLE [LIQUIDS]	
Flammability Limit in Air		None known
Upper flammability or explosive limits	13.0	
Lower flammability or explosive limits	1.8	
Vapor pressure	No data available	None known
Relative vapor density	>1	
Relative density	0.8	
Water solubility	partly soluble	
Solubility(ies)	No data available	None known
Partition coefficient	log P(o/w) = 0.26	
Autoignition temperature	500 °C	
Hyphen	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known

Additional information

Explosive properties	No information available
Oxidizing properties	No information available
Liquid Density	0.800000011920929

Section 10: Stability and reactivity

Stability Stable under normal conditions.

Possibility of hazardous reactions None under normal processing.

Sensitivity to mechanical impact None.

Sensitivity to static discharge Yes.

Hazardous polymerization no.

Conditions to avoid Heat, flames and sparks.

Incompatible materials Strong acids. Strong bases. Strong oxidizing agents.

Hazardous decomposition products Carbon monoxide. Carbon dioxide (CO₂).

Section 11: Toxicological information

Acute toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	3,531.20 mg/kg
ATEmix (dermal)	4,838.70 mg/kg

Unknown acute toxicity

- 0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
- 5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Methyl ethyl ketone	2483 mg/kg (Rat)	= 5000 mg/kg (Rabbit)	= 11700 ppm (Rat) 4 h
Acetone	= 5800 mg/kg (Rat)	> 15700 mg/kg (Rabbit)	= 50100 mg/m ³ (Rat) 8 h

Ingestion	May be harmful if swallowed
Skin corrosion/ irritation	Classification based on data available for ingredients. Irritating to skin.
Serious eye damage/ eye irritation	Classification based on data available for ingredients. Causes serious eye irritation.
Respiratory or skin sensitization	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
Specific target organ toxicity (single exposure)	May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure)	No information available.
Target organ effects	Central nervous system. Eyes. Respiratory system. Skin.
Aspiration hazard	No information available.

Section 12: Ecological information

Ecotoxicity

Unknown aquatic toxicity 0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical name	Algae/ aquatic plants	Fish	Crustacea
Methyl ethyl ketone	-	LC50: 3130 - 3320mg/L (96h, Pimephales promelas)	EC50: >520mg/L (48h, Daphnia magna) EC50: =5091mg/L (48h,

			Daphnia magna) EC50: 4025 - 6440mg/L (48h, Daphnia magna)
Acetone	-	LC50: 4.74 - 6.33mL/L (96h, Oncorhynchus mykiss) LC50: 6210 - 8120mg/L (96h, Pimephales promelas) LC50: =8300mg/L (96h, Lepomis macrochirus)	EC50: 10294 - 17704mg/L (48h, Daphnia magna) EC50: 12600 - 12700mg/L (48h, Daphnia magna)

Persistence and degradability No information available.

Bioaccumulative potential There is no data for this product.

Component Information

Chemical name	Partition coefficient
Methyl ethyl ketone	0.3
Acetone	-0.24

Mobility in soil No information available.

SECTION 13: Disposal information

Waste chemicals Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

SECTION 14: Transportation information

IMDG

UN number or ID number UN1210
 UN proper shipping name Ketones, liquid, n.o.s. (methyl ethyl ketone / acetone mixture)
 Transport hazard class(es) 3
 Packing group II
 EmS-No F-E, S-D
 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No information available

IATA

UN number or ID number UN1210
 UN proper shipping name Ketones, liquid, n.o.s. (methyl ethyl ketone / acetone mixture)
 Transport hazard class(es) 3
 Packing group II

China

UN number or ID number UN1210
 UN proper shipping name Ketones, liquid, n.o.s. (methyl ethyl ketone / acetone mixture)

Special precautions for user

Please refer to the applicable dangerous goods regulations for additional information

Section 15: Regulatory information

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

National regulations

Law of the People's Republic of China on Prevention and Control of Occupational Diseases

Catalog of occupational hazard factors:

Listed. Chemical hazards.

Catalog of occupational diseases:

Listed. Occupational poisoning.

Chemical name	Category
Methyl ethyl ketone	Chemical hazards
Acetone	Chemical hazards

Regulations on the Control over Safety of Hazardous Chemicals

Inventory of hazardous chemicals

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed. Verify that license requirements are met.

Flammable liquid - Category 2 Weight-% 100

Chemical name	Inventory of hazardous chemicals
Methyl ethyl ketone	Listed
Acetone	Listed

GB 18218-2009 Identification of major hazard installations for dangerous chemicals

Category

Flammable liquids

Threshold quantity (T)

1000

Chemical name	Threshold quantity (T)
Acetone	500

List of hazardous chemicals under priority management

Not applicable

Regulations on Labor Protection in Workplaces Where Toxic Substances Are Used

Inventory of highly toxic goods

Not applicable

Regulations for Environmental Management on the First Import of Chemicals and the Import and Export of Toxic Chemicals

List of toxic chemicals severely restricted for import and export in China

Not applicable

Measures for the Environmental Management of New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances Contact supplier for inventory compliance status.

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

Section 16: Other information

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Revision Note The symbol (*) in the margin of this SDS indicates that this line has been revised.

Abbreviations and acronyms

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
C	Carcinogen		

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
U. S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AEGL(s))
U. S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U. S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
Japan GHS Classification
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine's PubMed database (NLM PUBMED)
National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
Organization for Economic Co-operation and Development High Production Volume Chemicals Program
Organization for Economic Co-operation and Development Screening Information Data Set
RTECS (Registry of Toxic Effects of Chemical Substances)
World Health Organization

Disclaimer

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End of Safety Data Sheet