



MATERIAL SAFETY DATA SHEET

Perfumery Material Base

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Perfumery Material Base

CONTACT PERSON:

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2. HAZARDS IDENTIFICATION

Emergency Overview:

CAUTION!

- May cause respiratory tract, skin and eye irritation.

Product Description

Appearance: Dark Reddish Liquid

Potential health effects

Routes of exposure: Skin, eyes, inhalation, ingestion

Immediate effects:

Skin: Only slightly irritating to the skin. Symptoms of exposure may include: Drying, cracking or inflammation of skin.

Eyes: Exposure to liquid May cause eye irritation. Symptoms of exposure may include: Eye irritation or burning sensation

Inhalation: May cause respiratory tract irritation. Symptoms of exposure may include: Nasal discharge, hoarseness, coughing, chest pain and breathing difficulty.

Ingestion: Essentially non-toxic. Symptoms of exposure may include: Nausea, vomiting, loss of appetite, gastrointestinal irritation and/or diarrhea.

3. COMPOSITION, INFORMATION ON INGREDIENTS

CAS No.	Chemical Name	Percent
565-62-8	3-Methyl-3-Penten-2-One	20-30
148240-05-5	2,4-Dimethyl-5-hexanolide	20-30
16647-04-4	3,5-Heptadien-2-one,6-methyl-(E)-	20-30
-	Other Perfumery Ketones	10-40

4. FIRST AID MEASURES

Skin:

Immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Call a physician if irritation develops and persists. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eyes:

Immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention.

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion:

If large quantities of this material are swallowed, call a physician immediately. Do NOT induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person. Get medical attention.

Advise to Physician:

No specific instructions.
Treat symptomatically

5. FIRE FIGHTING MEASURES

Suitable extinguishing media-

M-Foam, Dry chemical, carbon dioxide (CO₂), Alcohol-resistant foam, water-Jet for large fire.

Wear self- contained breathing apparatus. Wear full protective suit.

Gases

Under conditions giving incomplete combustion, hazardous gases produced may consist of carbon monoxide carbon dioxide (CO₂). Combustion gases of organic materials must in principle be graded as inhalation poisons.

Vapors are lighter than air

Special protective equipment for fire fighters

Self-contained breathing apparatus (EN 133).

Environmental precautions

Water runoff can cause environmental damage. Do not use Dyke and collect water used to fight fire.

6. ACCIDENTAL RELEASE MEASURES

Spill or Leak Instructions

See Section 8 for appropriate personal protective equipment. Contain spill with dikes of soil or nonflammable absorbent to minimize contaminated area. Avoid run-off into storm sewers and ditches leading to waterways. If required, notify state and local authorities. Place leaking containers in well-ventilated area. Clean up small spills by using a nonflammable absorbent or flushing sparingly with water. Contain larger spills with nonflammable diking or absorbent. Clean up by vacuuming or sweeping.

Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind; keep out of low areas. Assess the spill situation, as the spill may not evolve large amounts of hazardous airborne contaminants in many outdoor spill situations. It may be advisable in some cases to simply monitor the situation until spilled product is removed.

7. HANDLING AND STORAGE

Advice on safe handling

Provide sufficient air exchange and/or exhaust in workrooms

Protection - fire and explosion:

Keep away from sources of ignition - No smoking. Take necessary action to avoid static electricity discharge. Ground and bond containers when transferring material. In case of fire, emergency cooling with water spray should be available.

Storage Technical measures/Storage conditions

Keep tightly closed in a dry, cool and well-ventilated place. Handle and open container with care. Keep away from Oxidizing agent

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

ACGIH Exposure Limits

Components	TWA
3-Methyl-3-Penten-2-One	N.A.
2,4-Dimethyl-5-hexanolide	N.A.
3,5-Heptadien-2-one,6-methyl-(E)-	N.A.
Other Perfumery Ketones	N.A.

Engineering measures

General or dilution ventilation is frequently insufficient as the sole means of Controlling employee exposure. Local ventilation is usually preferred. Explosion-proof equipment (for example fans, switches, and grounded ducts) should be used in mechanical ventilation systems.

Personal protective equipment

General advice

Avoid contact with skin and eyes. Do not breathe vapors or spray mist. Use only in an area equipped with a safety shower. Hold eye wash fountain available.

Hygiene measures - When using, do not eat, drink or smoke. Take off all contaminated clothing immediately. Wash hands before breaks and immediately after handling the product.

Eye protection - Tightly fitting safety goggles. In addition to goggles, wear a face shield if there is a reasonable chance for splash to the face. Equipment should conform to EN.

Skin protection - Impervious clothing

Hand protection -Chemicals resistant gloves

Suitable material type: Acid-alkali proof or comparable article

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	liquid
Colour:	Dark Reddish
Odor:	Strong Ketone Odor
Flash point:	34°C – open cup
Ignition temperature:	N.A
Lower explosion limit:	N.A
Upper explosion limit:	N.A.
Freezing Point:	< 4.0°C
Boiling point/range:	Initial 91.0 deg Final - > 176°C (not detected up to 176°C)
Specific Gravity:	0.968 g/cm ³ @ 20°C (Water = 1.0)
pH:	7 – 8
Solubility in water:	Immiscible
Viscosity:	N.A.
Vapor pressure:	N.A.
Vapor density:	N.A.

10. STABILITY AND REACTIVITY

Stability:

Stable under normal conditions of handling, use and transportation

Conditions to avoid:

Avoid any source of ignition. Avoid contact with heat, sparks, open flame, and static discharge.

Materials to avoid:

Keep away from: oxidizing agents.

Thermal decomposition:

No decomposition if used and stored according to specification.

Dangerous reactions:

No dangerous reactions known.

Dangerous products of decomposition:

Carbon monoxide & carbon dioxide

11. TOXICOLOGICAL INFORMATION

Immediate (acute) effects:

Oral-	Rat - LD50: -7060 mg/kg
Inhalation	Rat LC50: 20,000 ppm/10H
Ntraperitonea	Rat -LD50: 3750 mg/kg
Intravenous	Rat -LD50: 1440 mg/kg
Oral-	Mouse LD50: 3450 mg/kg
Inhalation	Mouse LC50: 39 g/m ³ /4H
Ntraperitonea	Mouse-LD50: 933mg/kg
Intravenous	Mouse LD50: 1973 mg/kg
Subcutaneous	Mouse - LD50: 8285 mg/kg

Delayed (subchronic and chronic) effects:

Exposure to concentrations over 1000 ppm may cause headache, irritation of the eyes, nose, and throat, and, if continued, drowsiness and lassitude, loss of appetite, and inability to concentrate. There is no concrete evidence that repeated exposure to vapor results in cirrhosis of the liver. Ingestion of large doses can cause alcohol poisoning. Repeated ingestions can lead to alcoholism.

Primary irritant effect:

On the skin: Irritant for skin & mucous membranes.

On the Eye: Irritant effect.

Sensitization: No sensitizing effect known

Additional toxicological information:

To the best of our knowledge the acute & chronic toxicity of this substance is not fully known. No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

Routes of exposure - Inhalation

12. ECOLOGICAL INFORMATION

General notes:

Water hazardous Class 1 (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system. Do not allow material to be released to the environment without proper governmental permits.

13. DISPOSAL CONSIDERATIONS

Product recommendation:

Disposal required in compliance with all waste management related state and local regulations. The choice of the appropriate method of disposal depends on the product composition by the time of disposal as well as the local statute and possibilities for disposal.

Uncleaned packaging's recommendation:

Disposal must be made according to official regulations.

Other disposal considerations:

Dispose of material in accordance with all applicable local, state regulations. The information offered here is for the product as shipped. Use and/or alterations to the product such as mixing with other materials may significantly change the characteristics of the material and alter the RCRA classification and the proper disposal method.

14. TRANSPORT INFORMATION

Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)

ADR/RID-GGVS/E Class: 3 (F1) Flammable liquids.

Kemler number: 30

UN Number: 1224

Packaging group: III

Label: 3

Designation of goods: 1224 KETONES, LIQUID MIXTURE

Limited quantities (LQ): LQ7

Tunnel restriction code: D/E

Maritime transport IMDG/GGVSea:

IMDG/GGVSea Class: 3

UN Number: 1224

Packaging group: III

Label: 3

Correct technical name: KETONES, LIQUID MIXTURE

Air transport ICAO -TI & IATA-DGR:

ICAO / IATA Class: 3

UN/ID Number: 1224

Packaging group: III

Label: 3

Correct technical name: KETONES, LIQUID MIXTURE

15. REGULATORY INFORMATION

Labelling in accordance with EC directives

EC label

Contains 3-Methyl- 3-Penten -2-One,
2,4-Dimethyl-5-hexanolide ,
3,5-Heptadien-2-one,6-methyl-(E)-

Symbol(s) - Flammable.

Xi - Irritant

Risk phrase(s)

R10 - Flammable.

R36 - Irritating to eyes.

R37 - Irritating to respiratory system.

R38 - Irritating to Skin

Safety phrase(s)

S16 - Keep away from sources of ignition - No smoking.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37 - Wear suitable items.

National regulations information about limitation of use:

Employment restrictions concerning young persons must be observed. For use only by technically qualified individuals.

HMIS (U.S.A.):

Health 0

Flammability 3

Physical hazard 0

16. OTHER INFORMATION

The information in this safety data sheet is based on data and samples provided. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Old versions must be destroyed. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes.

The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. Godavari Biorefineries Limited does not guarantee the accuracy or exhaustiveness of the information provided.