

MATERIAL SAFETY DATA SHEET (MSDS)

In compliance with directive 91/155/ECC and its adaptations

ALDEHYDE C-14 (GAMMA UNDECALACTONE)

1. IDENTIFICATION OF THE SUBSTANCE/ PREPARATION AND THE COMPANY/ UNDERTAKING

COMMERCIAL NAME	AROMA CHEMICALS
INTENDED USE	FRAGRANCE & FLAVOUR
MANUFACTURER	M/S. LAKSHMI SYNTHESIS PLOT No. A-18, M.I.D.C, INDUSTRIAL AREA, SAONER-441107; DISTRICT –NAGPUR, MAHARASHTRA, INDIA. Phone no: +91-711-3236501. +91-9922407501, +91-9422107501 Email: lakshmisynthesis@gmail.com

2. COMPOSITION / INFORMATION ON INGREDIENTS

PRODUCT	ALDEHYDE C-14 (GAMMA UNDECALACTONE)
MOLECULAR FORMULA	C11 H20 O2
MOLECULAR WEIGHT	184
CAS NO.	104-67-6
EINECS/ELINCS NO	203-225-4

M/S LAKSHMI SYNTHESIS

PLOT NO. A/18 M.I.D.C. INDUSTRIAL AREA SAONER-441107, DISTRICT NAGPUR, MAHARASHTRA, INDIA.

CONTACT NO: +91-7113-236501.

WEBSITE: www.lakshmisynthesis.com

EMAIL ID: info@lakshmisynthesis.com, lakshmisynthesis@gmail.com

MATERIAL SAFETY DATA SHEET (MSDS)

3. HAZARDS IDENTIFICATION

PHYSICAL & CHEMICAL HAZARDS	Refer to the paragraph relating to Physico-Chemical properties information.
HAZARDS TO MAN	Refer to the paragraph relating to toxicology data and regulatory information.
HAZARDS TO ENVIRONMENT	Refer to the paragraph relating to ecological data and regulatory information. Product not classified and dangerous according to the European directive 67/548 and its adaptations.

4. FIRST AID MEASURES

EYE CONTACT	Rinse immediately with plenty of water for 10 minutes at least. Contact a physician if symptoms persist.
SKIN CONTACT	Wash thoroughly with soap and water; flush with plenty of water. Take off spoilt clothes. Contact physician if symptoms persist.
INGESTION	Wash the mouth with water; seek medical advice immediately.
INHALATION	Remove from exposure site to fresh air and keep at rest. Obtain medical advice.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA RECOMMENDED	CO ₂ , foam, dry chemicals.
NON RECOMMENDED	Do not use direct water jet on burning Material.
EXTINGUISHING PROCEDURES	Closed containers may build up pressure at elevated temperatures. If possible, containers should be cooled with a water spray.

MATERIAL SAFETY DATA SHEET (MSDS)

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS	Use individual protective equipment (waterproof boots, suitable protective clothing and safety glasses). Prevent any contact with hot surface. Do not approach facing the wind.
ENVIRONMENT PRECAUTIONS	Keep away from drains, surface, groundwater and soil.
METHODS FOR CLEANING UP	Contain spilled material. Cover with inert, non-combustible, inorganic Absorbent material, or sweep up and remove to an approved disposal container. Avoid open flames or other sources of ignition.

7. HANDLING AND STORAGE

PRECAUTION IN HANDLING	Apply according to good manufacturing and Industrial hygiene practices/ proper ventilation. Do not drink, eat or smoke while handling. Respect good personal hygiene.
STORAGE CONDITIONS	Store in a cool, dry and ventilated area away from heat sources and protected from light in tightly closed original container. Keep air contact to a minimum.

8. EXPOSURE CONTROLS

RESPIRATORY PROTECTION	Avoid to breathe directly on the product. Apply local ventilations appropriate.
VENTILATION	Ensure good ventilation of the work station.
HAND PROTECTION	Avoid skin contact. Use chemical resistant gloves as needed.
EYE PROTECTION	Use safety glasses.
WORK/ HYGIENIC PRACTICES	Wash hand with soap and water after handling.

MATERIAL SAFETY DATA SHEET (MSDS)

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	COLOURLESS TO PALE YELLOW COLOUR LIQUID
FLASH POINT	160 °C
SPECIFIC GRAVITY	0.935 to 0.945
WATER SOLUBILITY	INSOLUBLE IN WATER

10. STABILITY AND REACTIVITY

REACTIVITY	It presents no significant reactivity hazards, by itself or in contact with water. Avoid contact with strong acids, alkali or oxidizing agents.
CONDITIONS TO AVOID	Excessive heat, open flamed or other sources of ignition, otherwise stable at ambient conditions.

11. TOXICOLOGICAL INFORMATION

LD 50 oral (mg/kg) ORGANISM	18500
ORGANISM	RAT

12. ECOLOGICAL INFORMATION

BIODEGRADABILITY	Not determined
PRECAUTIONS	Prevent contamination of soil, ground and surface water

13. DISPOSAL CONSIDERATIONS

In accordance with local environment laws. Avoid disposing into drainage systems into the environment.

14. TRANSPORT INFORMATION

CLASS: UN/ID Number: Packing group	Not Required
RID/ ADR	Not Required
IMDG	Not Required
ICAO/ IATA	Not Required

15. REGULATORY INFORMATION

LABEL	ALDEHYDE C-14 (GAMMA UNDECALACTONE)
-------	-------------------------------------

OTHER INFORMATION

The information contained in the present MSDS, according to regulation 1907/2006, is based on our knowledge and experience at the moment of publishing it. This document tries to give information about the correct use, storage and transport. **BEARING IN MIND THAT THE USE OF THIS INFORMATION AND THE CONDITIONS OF USE OF THE PRODUCT ARE NOT UNDER CONTROL.**

LAKSHMI SYNTHESIS SAONER, DISTRICT NAGPUR, MAHARASHTRA (INDIA) provides the information contained herein in a good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose and take the responsibility for observing existing laws and regulations.