otto chemie pvt ltd

An ISO 9001 : 2015 & GMP Certified Company 101, Aarkay Ruby Industrial Estate (1B), Opp Shree Narayan Industrial Estate, Chinchpada, Vasai East, Waliv, Maharashtra 401208. Tel : + 91 98200 41841 Email : info@ottokemi.com Web : www.ottokemi.com

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1. Product identifiers

Product name: Acetone, for HPLC & Spectroscopy 99.8% Product Code: A 1278 CAS No: 67-64-1 1.2. Relevant identified uses of the substance or mixture and uses advised against Use : Industrial. For professional use only.

1.3. Details of the supplier of the safety data sheet Company identification OTTO CHEMIE PVT LTD 101, Aarkay Ruby Industrial Estate(1B), Opp Shree Narayan Industrial Estate, Chinchpada, Vasai East, Waliv, Maharashtra 401208. Email info@ottokemi.com

1.4. Emergency telephone number Phone no.: + 91 22 2207 0099 (9:00am - 6:00 pm)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 Flammable liquids (Category 2), H225 Eye irritation (Category 2), H319 Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336 For the full text of the H-Statements mentioned in this Section, see Section 16. 2.2 Label elements Labelling according Regulation (EC) No 1272/2008 Pictogram Signal word Danger Hazard statement(s) H225 Highly flammable liquid and vapor. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. Precautionary statement(s) P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 Keep container tightly closed. P240 Ground and bond container and receiving equipment. P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment. P242 Use non-sparking tools. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Supplemental Hazard information (EU) EUH066 Repeated exposure may cause skin dryness or cracking. Reduced Labeling (<= 125 ml) Pictogram Signal word Danger Hazard statement(s) none Precautionary statement(s) none Supplemental Hazard information (EU) EUH066 Repeated exposure may cause skin dryness or cracking. 2.3 Other hazards This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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Otto Chemie Pvt Ltd - provides the information contained herein in 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

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SECTION 3: Composition/information on ingredients

3.1 Substances Formula : C3H6O Molecular weight : 58,08 g/mol CAS-No. : 67-64-1 EC-No. : 200-662-2 Index-No. : 606-001-00-8 Component Classification Concentration Acetone Flam. Liq. 2; Eye Irrit. 2; <= 100 % CAS-No. 67-64-1 STOT SE 3; H225, H319, EC-No. 200-662-2 H336 Index-No. 606-001-00-8 Concentration limits: >= 20 %: STOT SE 3, H336;

SECTION 4: First aid measures

4.1 Description of first-aid measures General advice Show this material safety data sheet to the doctor in attendance. If inhaled After inhalation: fresh air. Call in physician. In case of skin contact In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. In case of eve contact After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses. If swallowed After swallowing: immediately make victim drink water (two glasses at most). Consult a physician. 4.2 Most important symptoms and effects, both acute and delayed The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11 4.3 Indication of any immediate medical attention and special treatment needed No data available **SECTION 5: Firefighting measures** 5.1 Extinguishing media Suitable extinguishing media Carbon dioxide (CO2) Foam Dry powder Unsuitable extinguishing media For this substance/mixture no limitations of extinguishing agents are given. 5.2 Special hazards arising from the substance or mixture Combustible. Pay attention to flashback. Vapors are heavier than air and may spread along floors. Development of hazardous combustion gases or vapours possible in the event of fire. Forms explosive mixtures with air at ambient temperatures. 5.3 Advice for firefighters In the event of fire, wear self-contained breathing apparatus.

5.4 Further information

Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition.
Evacuate the danger area, observe emergency procedures, consult an expert.
For personal protection see section 8.
6.2 Environmental precautions

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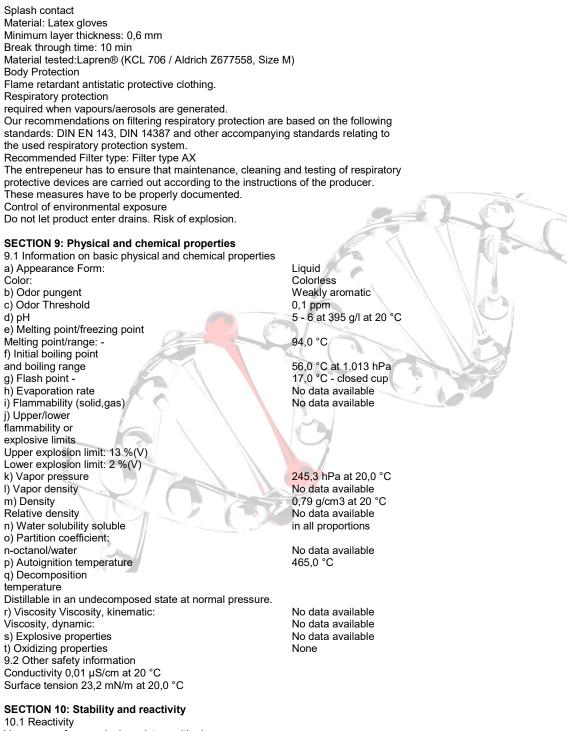
Do not let product enter drains. Risk of explosion. 6.3 Methods and materials for containment and cleaning up Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area. 6.4 Reference to other sections For disposal see section 13. **SECTION 7: Handling and storage** 7.1 Precautions for safe handling Advice on safe handling Avoid generation of vapours/aerosols. Advice on protection against fire and explosion Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge. Hygiene measures Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance. For precautions see section 2.2. 7.2 Conditions for safe storage, including any incompatibilities Storage conditions Protected from light.Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Recommended storage temperature see product label. Storage class Storage class (TRGS 510): 3: Flammable liquids 7.3 Specific end use(s) Apart from the uses mentioned in section 1.2 no other specific uses are stipulated SECTION 8: Exposure controls/personal protection 8.1 Control parameters Ingredients with workplace control parameters Predicted No Effect Concentration (PNEC) **Compartment Value** Fresh water 10,6 mg/l Sea water 1,06 mg/l Fresh water sediment 30,4 mg/kg Sea sediment 3,04 mg/kg Soil 29,5 mg/kg Sewage treatment plant 100 mg/l 8.2 Exposure controls Personal protective equipment Eye/face protection Use equipment for eve protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses Skin protection This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Full contact Material: butyl-rubber Minimum layer thickness: 0,7 mm Break through time: 480 min Material tested:Butoject® (KCL 898) This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

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Vapors may form explosive mixture with air. 10.2 Chemical stability

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The product is chemically stable under standard ambient conditions (room temperature). 10.3 Possibility of hazardous reactions Risk of ignition or formation of inflammable gases or vapours with: chromosulfuric acid chromyl chloride ethanolamine Fluorine Strong oxidizing agents strong reducing agents Nitric acid chromium(VI) oxide Risk of explosion with: nonmetallic oxyhalides halogen-halogen compounds Chloroform nitrating acid nitrosyl compounds hydrogen peroxide halogen oxides organic nitro compounds peroxi compounds Exothermic reaction with: Bromine Alkali metals alkali hydroxides Halogenated hydrocarbon Sulfur dichloride phosphorous oxichloride 10.4 Conditions to avoid Warming. 10.5 Incompatible materials rubber, various plastics 10.6 Hazardous decomposition products In the event of fire: see section 5 **SECTION 11: Toxicological information** 11.1 Information on toxicological effects Acute toxicity LD50 Oral - Rat - female - 5.800 mg/kg Remarks: (ECHA) LC50 Inhalation - Rat - 4 h - 76 mg/l Remarks: Unconsciousness Drowsiness Dizziness (External MSDS) LD50 Dermal - Rabbit - 20.000 mg/kg Remarks: (IUCLID) Skin corrosion/irritation Skin - Rabbit Result: Mild skin irritation - 24 h (Draize Test) Remarks: (RTECS) Serious eye damage/eye irritation Eyes - Rabbit Result: Eye irritation - 24 h (Draize Test) Remarks: (RTECS) Respiratory or skin sensitization Maximization Test - Guinea pig Result: Not a skin sensitizer. Remarks: (ECHA)

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Chronic exposure may cause dermatitis. Germ cell mutagenicity Test Type: Mutagenicity (mammal cell test): chromosome aberration. Test system: Chinese hamster ovary cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative Test Type: Ames test Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Test Type: In vitro mammalian cell gene mutation test Test system: Mouse lymphoma test Metabolic activation: without metabolic activation Method: OECD Test Guideline 476 Result: negative Carcinogenicity No data available Reproductive toxicity No data available Specific target organ toxicity - single exposure Inhalation - May cause drowsiness or dizziness. - Narcotic effects Specific target organ toxicity - repeated exposure No data available Aspiration hazard No data available 11.2 Additional Information To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. After absorption: Headache Salivation Nausea Vomiting Dizziness narcosis Coma Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice. Kidney - Irregularities - Based on Human Evidence Skin - Dermatitis - Based on Human Evidence **SECTION 12: Ecological information** 12.1 Toxicity Toxicity to fish flow-through test LC50 - Pimephales promelas (fathead minnow) -6.210 mg/l - 96 h (OECD Test Guideline 203) Toxicity to daphnia and other aquatic invertebrates static test LC50 - Daphnia pulex (Water flea) - 8.800 mg/l - 48 h

Toxicity to algae static test NOEC - M.aeruginosa - 530 mg/l - 8 d (DIN 38412)

Remarks: (maximum permissible toxic concentration) (IUCLID)

Toxicity to bacteria static test EC50 - activated sludge - 61,15 mg/l - 30 min (OECD Test Guideline 209)

12.2 Persistence and degradability

Biodegradability aerobic - Exposure time 28 d

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Remarks: (ECHA)

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Result: 91 % - Readily biodegradable. (OECD Test Guideline 301B) **Biochemical Oxygen** Demand (BOD) 1.850 mg/g Remarks: (IUCLID) Chemical Oxygen Demand (COD) 2.070 mg/g Remarks: (IUCLID) Theoretical oxygen demand 2.200 mg/g Remarks: (Lit.) 12.3 Bioaccumulative potential Does not bioaccumulate. 12.4 Mobility in soil No data available 12.5 Results of PBT and vPvB assessment This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. 12.6 Other adverse effects **SECTION 13: Disposal considerations** 13.1 Waste treatment methods Product See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions. SECTION 14: Transport information 14.1 UN number ADR/RID: 1090 IMDG: 1090 IATA: 1090 14.2 UN proper shipping name ADR/RID: ACETONE IMDG: ACETONE IATA: Acetone 14.3 Transport hazard class(es) IMDG: 3 IATA: 3 ADR/RID: 3 14.4 Packaging group ADR/RID: II IMDG: II IATA: II 14.5 Environmental hazards ADR/RID: no IMDG Marine pollutant: no IATA: no 14.6 Special precautions for user No data available **SECTION 15: Regulatory information** 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. National legislation Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. : FLAMMABLE LIQUIDS Other regulations Take note of Dir 94/33/EC on the protection of young people at work. 15.2 Chemical Safety Assessment A Chemical Safety Assessment has been carried out for this substance.

Section 16: Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible

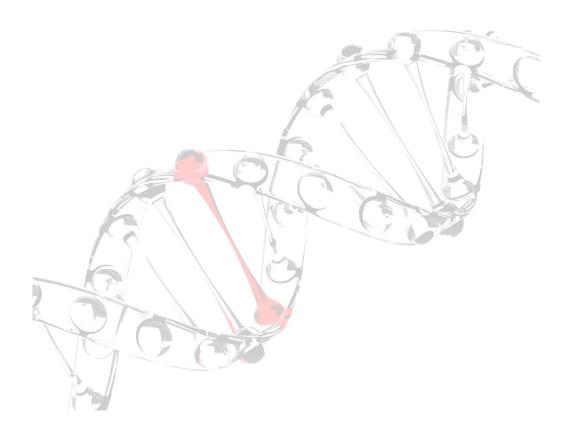
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risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.



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