Otto Chemie Pvt Ltd

An ISO 9001 : 2015 & GMP Certified Company Office : No 603, 6th Floor, Tardeo AC Market, 87, Tardeo Road, Tardeo, Mumbai, Maharashtra 400034, India (BHARAT) Tel : + 91 98200 41841 Email : <u>info@ottokemi.com</u> Web : <u>www.ottokemi.com</u>

## MATERIAL SAFETY DATA SHEET (MSDS)

# SECTION 1: Product identifiers

Product Name : Benzaldehyde, 99% Product Code : B 1445 CAS No: 100-52-7

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 No 603, 6th Floor, Tardeo AC Market, 87, Tardeo Road, Tardeo, Mumbai, Maharashtra 400034, India (BHARAT)

1.4. Emergency telephone number Phone no. : + 91 98200 41841 (10 : 00 am – 06 : 00 pm) For the full text of the H-Statements mentioned in this Section, see Section 16.

#### **SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture

Labelling according Regulation (EC) No 1272/2008

Acute toxicity, (Category 4) Acute toxicity, (Category 4) Skin irritation, (Category 2) Eye irritation, (Category 2) Reproductive toxicity, (Category 1B) Specific target organ toxicity single exposure, (Category 3), Respiratory system Long-term (chronic) aquatic H302: Harmful if swallowed.
H332: Harmful if inhaled.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H360D: May damage the unborn child.

H335: May cause respiratory irritation

Harmful if swallowed or if inhaled.

Causes serious eye irritation.

May cause respiratory irritation.

Avoid release to the environment.

IF ON SKIN: Wash with plenty of water.

May damage the unborn child.

Causes skin irritation.

H411: Toxic to aquatic life with long lasting effects

Toxic to aquatic life with long lasting effects.

IF SWALLOWED: Call a POISON CENTER/ doctor if you feel

IF INHALED: Remove person to fresh air and keep comfortable

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

IF exposed or concerned: Get medical advice/ attention.

for breathing. Call a POISON CENTER/ doctor if you feel unwell.

#### Danger

unwell.

rinsing.

none

Hazard Statements H302 + H332 H315 H319 H335 H360D H411 Precautionary Statements P273 P301 + P312 P302 + P352 P304 + P340 + P312

P305 + P351 + P338

hazard, (Category 2). 2.2 Label elements

Pictogram Signal Word

P308 + P313 Supplemental Hazard

Statements

Reduced Labeling (<= 125 ml)

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H360D       May damage the unborn child.         Precautionary Statements       P308 + P313         P308 + P313       IF exposed or concerned: Get medical advice/ attention.         Supplemental Hazard       Statements         none       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.         Ecological information:       The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Atricle 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.         Toxicological information:       The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Atricle 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.         SECTION 3: Composition/information on ingredients       3.1 Substances         S.1 Substances       Synonyms : Artificial essential oil of almond Formula : C7H60         Molecular weight : 106,12 g/mol       Cancentration         Cas-No.       : 202-860.4	Pictogram Signal Word Hazard Statements	Danger				
P308 + P313       IF exposed or concerned: Get medical advice/ attention.         Supplemental Hazard       Statements         none       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.       Ecological information:         The substance/mixture does not contain components considered to have endocrine       disrupting properties according to REACH Article 57(f) or Commission Delegated regulation         (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.       Toxicological information:         The substance/mixture does not contain components considered to have endocrine       disrupting properties according to REACH Article 57(f) or Commission Delegated regulation         (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.       Sectrol 3: Composition/information on ingredients         3.1 Substances       Synonyms       Artificial essential oil of almond         Synonyms       Artificial essential oil of almond       Formula         Component       Classification       Concentration	H360D	May damage the unbor	n child.			
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CAS-No.         : 100-52-7           EC-No.         : 202-860-4           Component         Classification         Concentration	i ennala					
Component Classification Concentration						
	EC-No.	: 202-860-4				
	Component	Classification	Concentration			

benzaldehy	de 🖌 了		
CAS-No.	100-52-7	Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2;	<= 100 %
EC-No.	202-860-4	Repr. 1B; STOT SE 3; Aquatic Chronic 2;	
		H302, H332, H315, H319, H360D, H335,	
9		H411	

# **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. Immediately call in physician. If breathing stops: immediately apply artificial respiration, if necessary also oxygen.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with

water/ shower. Consult a physician. 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

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#### **SECTION 5: Firefighting measures**

5.1 Extinguishing media Suitable extinguishing media Water Foam Carbon dioxide (CO2) 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 Carbon oxides Combustible. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapours possible in the event of fire. 5.3 Advice for firefighters Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing. 5.4 Further information Under fire conditions, material may decompose to form flammable and/or explosive mixtures in air.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 Do not let product enter drains. 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 carefully 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 Work under hood. Do not inhale substance/mixture. 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 Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2. 7.2 Conditions for safe storage, including any incompatibilities Storage conditions Store under nitrogen. Tightly closed. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons. Air, light, and moisture sensitive. Storage class Storage class (TRGS 510): 6.1C: Combustible, acute toxic Cat.3 / toxic compounds or compounds which causing chronic effects 7.3 Specific end use(s) Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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## SECTION 8: Exposure controls/personal protection

8.1 Control parameters Ingredients with workplace control parameters 8.2 Exposure controls Personal protective equipment Eve/face protection Use equipment for eye 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 EN 16523-1 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 EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Splash contact Material: Latex gloves Minimum layer thickness: 0,6 mm Break through time: 10 min Body Protection protective clothing Respiratory protection Recommended Filter type: Filter A (acc. to DIN 3181) for vapours of organic compounds The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented. Control of environmental exposure Do not let product enter drains. **SECTION 9: Physical and chemical properties** 9.1 Information on basic physical and chemical properties a) Physical state liquid b) Color colorless c) Odor No data available d) Melting Melting point/range: -26 °C - lit. point/freezing point e) Initial boiling point No data available and boiling range f) Flammability (solid, No data available qas) g) Úpper/lower Upper explosion limit: 8,5 %(V) flammability or Lower explosion limit: 1,4 %(V) explosive limits h) Flash point 63 °C - closed cup i) Autoignition No data available temperature j) Decomposition No data available temperature k) pH 5.9 at 20 °C I) Viscosity Viscosity, kinematic: No data available

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Viscosity, dynamic: No data available

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m) Water solubility n) Partition coefficient: n-octanol/water o) Vapor pressure p) Density Relative density q) Relative vapor density r) Particle characteristics s) Explosive properties t) Oxidizing properties 9.2 Other safety information Surface tension 70,5 mN/m at 1g/l at 20 °C - OECD Test Guideline 115 Relative vapor density 3,66 - (Air = 1.0)

6,95 g/l at 25 °C log Pow: 1,4 at 25 °C - Bioaccumulation is not expected.

1,69 hPa at 25 °C 1,044 g/cm3 at 20 °C - lit. No data available No data available

No data available

No data available none

**SECTION 10: Stability and reactivity** 10.1 Reactivity Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical. 10.2 Chemical stability The product is chemically stable under standard ambient conditions (room temperature) 10.3 Possibility of hazardous reactions Violent reactions possible with: bases Alkali metals Aluminum Iron performic acid phenols Oxygen Oxidizing agents 10.4 Conditions to avoid Air Exposure to moisture. Light. Heat. Strong heating. 10.5 Incompatible materials No data available 10.6 Hazardous decomposition products In the event of fire: see section 5

# SECTION 11: Toxicological information

11.1 Information on toxicological effects Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Toxicity to Animals: Oral LD50 Rat: 1500 mg/kg; Dermal LD50 Rabbit: 2000mg/kg Inhalation LC50 Rat: > 50mg/L. Chronic Effects on Humans: CARCINOGENIC EFFECTS: Classified None. by NTP, None. by OSHA, None. by NIOSH. Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of inhalation (lung irritant). Special Remarks on Toxicity to Animals: Not available. Special Remarks on other Toxic Effects on Humans: Not available. Special Remarks on other Toxic Effects on Humans: Not available.

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# **SECTION 12: Ecological information**

12.1 Toxicity Toxicity to fish flow-through test LC50 - Lepomis macrochirus - 1,07 mg/l - 96 h (OECD Test Guideline 203) Toxicity to daphnia and other aquatic invertebrates semi-static test EC50 - Daphnia magna (Water flea) - 19,7 mg/l - 48 h (OECD Test Guideline 202) Toxicity to algae static test ErC50 - Pseudokirchneriella subcapitata - 33,1 mg/l - 72 h (OECD Test Guideline 201) Toxicity to bacteria static test IC50 - activated sludge - 759,3 mg/l - 3 h (OECD Test Guideline 209) Toxicity to fish(Chronic toxicity) flow-through test NOEC - Pimephales promelas (fathead minnow) -0,12 mg/l - 7 d Remarks: (ECHA) 12.2 Persistence and degradability Biodegradability aerobic - Exposure time 28 d Result: 95 % - Readily biodegradable. (OECD Test Guideline 301B) 12.3 Bioaccumulative potential No data available 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 Endocrine disrupting properties Product: Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. 12.7 Other adverse effects Forms toxic mixtures in water, dilution measures notwithstanding. Discharge into the environment must be avoided. **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: 1990 IMDG: 1990 IATA: 1990 14.2 UN proper shipping name ADR/RID: BENZALDEHYDE IMDG: BENZALDEHYDE IATA: BENZALDEHYDE 14.3 Transport hazard class(es) ADR/RID: 9 IMDG: 9 IATA: 9 14.4 Packaging group ADR/RID: III IMDG: III IATA: III 14.5 Environmental hazards ADR/RID: no IMDG Marine pollutant: no IATA: no

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Otto Chemie Pvt Ltd

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14.6 Special precautions for user Tunnel restriction code : (E) Further information : 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. E2 ENVIRONMENTAL HAZARDS Other regulations Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable. Take note of Dir 94/33/EC on the protection of young people at work. 15.2 Chemical Safety Assessment For this product a chemical safety assessment was not carried out

# **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 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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