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Version:01

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: TETRABUTYLAMMONIUM HYDROXIDE 20 wt.% SOLUTION IN WATER

CAS Number: NA

1. IDENTIFICATION:

Product Code : 91749

Company Name : ADVENT CHEMBIO PRIVATE LIMITED

Address W-279, MIDC, TTC INDUSTRIAL AREA, THANE-BELAPUR ROAD, RABALE,

. NAVI MUMBAI - 400 701.

E-mail : <u>sales@adventchembio.com</u>

WEBSITE : www.adventchembio.com

Company Phone Number : 022-27690837

2. HAZARDS IDENTIFICATION:

Hazard classification

Health hazards

Acute toxicity, Oral : Category 5

Skin corrosion/irritation : Category 1

Serious eye damage/eye

irritation

Hazard symbol

: Category 1

Skin sensitization : Category 1

Labels elements :

Signal word : Danger

Hazard statement May be harmful if swallowed.

: Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

Precautionary statement

Prevention: Obtain special instructions before use.

Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Do not handle until all safety

precautions have been read and understood.

Wear protective gloves/ protective clothing/ eye protection/ face protection. Keep away from heat/ sparks/ open flames/ hot surfaces. 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.

Response : IF exposed or concerned: Get medical advice/ attention.

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

shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.



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IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Storage IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Storage : Store in a dry & well-ventilated place. Keep container tightly closed. Containers which are

opened must be carefully resealed and kept upright to prevent leakage.

Disposal : Dispose of contents/container to an appropriate treatment and disposal facility in

accordance with applicable laws and regulations, and product characteristics at time of

disposal.

Other hazards which do

not result in GHS classification

: No data available.

3. COMPOSITION/INFORMATION ON INGRADIENTS:

Ingredient	CAS Number	Percent	Hazardous
Tetrabutylammonium	NA	19.5 - 20.5 %	Voc
Hydroxide 20% wt.% Solution in Water	NA	19.5 - 20.5 %	Yes

4. FIRST AID MEASURES:

General information : Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in

attendance.

Ingestion Call a physician or poison control center immediately. Rinse mouth. Do NOT induce

: vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the

lungs.

Move to fresh air. Call a physician or poison control center immediately. If breathing stops,

The most important known symptoms and effects are described in the labelling (see section

Inhalation : provide artificial respiration. If breathing is difficult, give oxygen.

Get medical attention if symptoms persist.

Skin contact Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact

lenses. Get medical attention.

Eye contact Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact

lenses. Get medical attention.

Most important

symptoms/effects, acute

and delayed

. 2.)

Indication of immediate

medical attention and special treatment needed

: No data available.

5. FIRE FIGHTING MEASURES:

General information : No data available.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media

: Water spray, foam, dry powder or carbon dioxide.

Unsuitable extinguishing

media

: Avoid water in straight hose stream; will scatter and spread fire.



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Specific hazards arising from the chemical

Vapors may cause a flash fire or ignite explosively. Vapors may travel considerable distance to a source of ignition and flash back. Prevent buildup of vapors or gases to explosive concentrations. Vapor from the solvent may accumulate in container headspace resulting in flammability hazard. Heat may cause the containers to explode.

CAS Number: NA

Special protective equipment and precautions for firefighters

Special firefighting procedures

Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting the fire. Fight fire from a protected location. Move containers from fire area if you can do so

Special protective equipment for fire-fighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

without risk.

6. ACCIDENTAL RELEASE MEASURES:

Personal precautions, protective equipment and emergency procedures ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid breathing mists or vapors. Keep upwind. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

Methods and material for containment and cleaning up

Eliminate all ignition sources if safe to do so. Use only non-sparking tools. Take precautionary measures against static discharges. Stop leak if possible without any risk.

Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.

Notification Procedures

Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if

large amounts are involved.

Environmental precautions

Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. HANDLING AND STORAGE:

Precautions for safe handling

Do not handle until all safety precautions have been read and understood. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Wear protective gloves/protective clothing/eye

Conditions for safe storage, including any incompatibilities Protection / face protection. Avoid contact with eyes, skin, and clothing. Do not breathe mist or vapor. Use only with adequate ventilation. Wash hands thoroughly after handling. Keep away from food, drink and animal feeding stuffs. Keep container tightly closed in a dry, well-ventilated place. Ground container and transfer equipment to eliminate static electric sparks. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of flammable liquids.



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8. EXPOSURE CONTROLS PERSONAL PROTECTION:

Control parameters

Occupational exposure

limits

Appropriate engineering

General information

Hygiene measures

.

controls

Individual protection measures, such as personal protective equipment

No data available

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust

ventilation, or other engineering controls to maintain airborne levels below recommended

exposure limits. If exposure limits have not been established, maintain airborne levels to an

acceptable level. An eye wash and safety shower must be available in the immediate work

area. Use explosion-proof ventilation equipment. **Eye/face protection**Wear safety glasses with side shields (or goggles).

Hand protection . Chemical resistant gloves.

Other . Wear suitable protective clothing.

Respiratory protection In case of inadequate ventilation use suitable respirator. Chemical

Respirator with organic vapor cartridge.

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and

Protective equipment to remove contaminants. Provide eyewash station and safety shower.

riotective equipment to remove containnants. Frovide eyewash station and safety showe

Avoid contact with eyes, skin, and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance : Clear, colourless to pale yellow liquid.

Odor : No data available.

Solubility : At 20 °C soluble Miscible in water.

Formula : No data available.

Molecular Weight : No data available.

Specific Gravity : 0.99 g/cm3 at 20°C

pH : 14 at 20 °C

% Volatiles by volume @

21C (70F)

: No data available.

Boiling Point : 102 °C at 1,013 hPa

Melting Point : No data available.

Flash Point : No data available.



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Vapor Density (Air=1) No data available. Vapor Pressure (mm Hg) No data available. Evaporation Rate (BuAc=1) No data available.

10. STABILITY AND REACTIVITY:

: No data available. Reactivity

Material is stable under ambient conditions. heat-sensitive Sensitive to air Chemical stability

Possibility of hazardous

Violent reactions possible with: Acids Violent reactions possible with: The generally known

reactions reaction partners of water.

Conditions to avoid Heat, sparks, flames. Sunlight.

Incompatible materials Carbon dioxide.

Hazardous decomposition

: In the event of fire: see section 5 products

11. TOXICOLOGICAL INFORMATION:

Information on likely routes of exposure

Ingestion : No data available.

Inhalation No data available.

Skin contact Causes mild skin irritation

Eve contact : Mixture causes serious eye damage. Risk of blindness.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral Product : LD50 Oral - Rat - female - 1,000 mg/kg.

Dermal Product No data available. **Inhalation Product** No data available.

Repeated dose toxicity

Product

No data available.

Skin corrosion/irritation

Product

No data available.

Serious eye damage/eye

irritation Product

Mixture causes serious eye damage. Risk of blindness.

Respiratory or skin sensitization Product

Mixture may cause an allergic skin reaction.

Carcinogenicity Product This substance has no evidence of carcinogenic properties

IARC Monographs on the : No carcinogenic components identified.



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Evaluation of Carcinogenic

Risks to Humans

US. National Toxicology

Program (NTP) Report on

Carcinogens

US. OSHA Specifically

Regulated Substances (29

CFR 1910.1001-1050 Germ cell mutagenicity : No carcinogenic components identified.

: No carcinogenic components identified.

In vitro Product No data available.

Reproductive toxicity

Product

No components toxic to reproduction.

Specific target organ

toxicity - single exposure

Product

: No data available.

wt.% SOLUTION IN WATER

Specific target organ

toxicity - repeated

exposure Product

No data available.

Aspiration hazard Product

No data available.

Other effects : No data available.

12. ECOLOGICAL INFORMATION:

Ecotoxicity

Fish Product

Acute hazards to the aquatic environment

No data available.

Aquatic invertebrates

Product

: No data available.

Chronic hazards to the aquatic environment

Fish Product : No data available.

Aquatic invertebrates

No data available. **Product**

Toxicity to Aquatic Plants

Product:

: No data available.

Persistence and degradability

Biodegradation Product : No data available.

BOD/COD ratio Product No data available.

Bioaccumulative potential

Bioconcentration factor

(BCF) Product

: No data available on bioaccumulation.



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Partition coefficient n-

octanol / water (log Kow)

: No data available.

Product

Mobility in soil

: No data available.

Other adverse effects

No data available.

13. DISPOSAL CONSIDERATION:

Disposal instructions : Discharge, treatment, or disposal may be subject to national, state, or local laws. Disposal

recommendations are based on uncontaminated material.

Contaminated packaging Since emptied containers retain product residue, follow label warnings even after container

is emptied.

14. TRANSPORT INFORMATION:

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT	UN 3267	Tetrabutylammonium Hydroxide 20% wt.% Solution in Water	8	II	No
IMDG	UN 3267	Tetrabutylammonium Hydroxide 20% wt.% Solution in Water	8	II	No
IATA	UN 3267	Tetrabutylammonium Hydroxide 20% wt.% Solution in Water	8	II	No

15. REGULATORY INFORMATION:

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. Safety, health and environmental regulations/legislation specific for the substance or mixture No Data Available.



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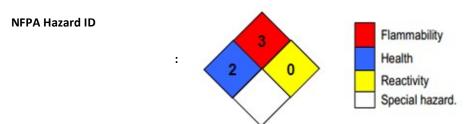
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16. OTHER INFORMATION:



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

Issue Date : 08/06/2023

Version : 01

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