



# MATERIAL SAFETY DATA SHEET (MSDS)

<b>Product Name:</b>	BENZALKONIL 50	<b>Document code:</b>	PSJ-RD-FR-22-00
<b>Chemical name:</b>	n-Alkyl Dimethyl Benzyl Ammonium Chloride	<b>Revision number:</b>	00
<b>Chemical class:</b>	Cationic	<b>Revision date:</b>	

## COMPANY IDENTIFICATION

**Manufacturer:** PADIDEH SHIMI JAM CO.

**Tell:** +98(21)88580000

**Address:** No.16, Western Fourth Golbarg St., Baharestan St., Dadman Blvd., TEHRAN, IRAN

## HAZARDS IDENTIFICATION

### Classification of the substance or mixture:

- Acute oral toxicity Category 4; H302
- Skin corrosion Category 1B; H314
- Acute aquatic toxicity Category 1; H400
- Chronic aquatic toxicity Category 1; H410

### GHS label elements, including precautionary statements Hazard pictogram:

- GHS05: Corrosion GHS07: Exclamation mark GHS09: Environment

### Signal word:

#### Danger Hazard statement(s):

- H302: Harmful if swallowed.
- H314: Causes severe skin burns and eye damage.
- H410: Very toxic to aquatic life with long lasting effects.

#### Precautionary statement(s):

- P273: Avoid release to the environment.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310: Immediately call a POISON CENTER or doctor/physician.
- P501: Dispose off contents/container in accordance with local/regional/national/international regulations.
- Other hazards which do not result in : Not known classification

## COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	CAS Number	Percent
n-Alkyl Dimethyl Benzyl Ammonium Chloride	63449-41-2	50 %
Water	7732-18-5	50 %

## FIRST AID MEASURES

### Eyes

Immediately flush eyes with running water, keeping the eyelids open forcibly. Remove contact lenses, if present, after the first 5 minutes, then continue flushing eyes for at least 15 minutes. Seek medical attention

### Skin

Immediately flush skin with plenty of water for at least 15 minutes. Seek medical advice

### Inhalation

Remove to fresh air. Seek medical advice, if necessary

### Ingestion

Immediately rinse mouth and then drink plenty of water. Seek medical attention. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person





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## FIRE FIGHTING MEASURES

### Suitable Extinguishing media

Dry chemical powder, foam, carbon dioxide, water

### Specific hazards arising from the chemical :

Development of hazardous combustion gases like oxides of carbon, nitrogen, various hydrocarbons and hydrogen chloride, hydrogen cyanide possible in the event of fire

### Special protective equipment and precautions :

Wear personal protective equipment and self-contained for fire-fighters breathing apparatus

## ACCIDENTAL RELEASE MEASURES

### Personal precautions

Use personal protective equipment. Wash hands after exposure with the substance. Avoid contact with skin, eyes and clothing. Remove contaminated clothing and wash before reuse

### Methods for cleaning up

- **Small Spills:** Absorb with suitable absorbent material. Collect in suitable and properly labeled container.
- **Large Spills:** Contain spilled material if possible. Pump into suitable and properly labeled containers. Dispose off absorbed material/collected material in accordance with regulations.

### Environmental precautions :

Do not discharge into drains, surface water or ground water

## HANDLING AND STORAGE

### Precautions for safe handling :

Follow general occupational hygiene such as, wash hands after use. Do not eat, drink or smoke in work areas. Remove contaminated clothing. Avoid spill. Follow safe procedures for loading and un-loading of product

### Conditions for safe storage, including :

Store the material in a clean, dry place at 10 - 40°C away from any incompatibilities direct heat and sunlight. Once the carboy is opened, ensure airtight closure after usage. In original sealed containers, when stored as suggested, the shelf life of the product is at least two years Stacking of carboys: During storage, single carboy (Palletized and non-palletized) During transport, single carboy (non-palletized) and palletized 1+1 Stacking of IBC: 1+1 both during storage and transport

### Suitable packing materials :

HMHDPE carboys / IBC

### Unsuitable packing materials :

Stainless steel / Mild steel

## EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control parameters

**Occupational exposure limits :** Not known

**Biological limit values :** Not known

**Appropriate engineering controls :** Proper plant design, technical measures and working operations should minimize human exposure

### Individual protection measures, such as :

**Eye/face protection:** Safety goggles personal protective equipment (PPE)

**Skin protection:** Apron, rubber gloves, shoes





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## PHYSICAL & CHEMICAL PROPERTIES

Physical state	Liquid.
Form	Liquid.
pH	6 - 8
Freezing point	32 °F (0 °C)
Boiling point	212 °F (100 °C)
Flash point	> 100°C
Relative density	0.9800 - 1.0000 at 25°C
Solubility(ies)	Soluble in water and ethanol
Viscosity (Brookfield, #2, 12 rpm)	100 - 200 cps at 25°C

## STABILITY & REACTIVITY

### Reactivity :

No hazardous reactions, if stored and handled as prescribed

### Chemical stability :

Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure

### Incompatible materials:

Strong oxidizing or reducing agents, anionic detergents and some inorganic salts

### Hazardous decomposition products:

Will not form, if stored or handled as prescribed

### Possibility of hazardous reactions:

Not anticipated when used or handled as prescribed

### Conditions to avoid :

Heat, flame and other sources of ignition

## TOXICOLOGICAL INFORMATION

### Acute oral toxicity (Rat) :

LD50: > 300 - < 2000 mg/kg bw (OECD Guideline 401)

### Acute dermal toxicity (Rabbit) :

LD50: > 2000 mg/kg bw (Equivalent or similar to EPA OPPTS 870.1200)

### Acute inhalation toxicity (Rat) :

LC50 (4 h): 0.25 (0.22 - 0.28) mg/l (OECD Guideline 403 / EPA OPP 81-3)

### Skin corrosion/irritation (Rabbit) :

Corrosive (According to Guideline: Transport of dangerous goods, special recommendations relating to Class 8, United Nations handbook, 1977)

### Respiratory or skin sensitization (Guinea pig) :

No sensitization

### Germ cell mutagenicity In vitro mammalian chromosome aberration test :

Negative

### Mammalian cell gene mutation assay (In vitro) :

Negative

### Carcinogenicity :

Not carcinogenic





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## ECOLOGICAL INFORMATION

Not available.

## DISPOSAL CONSIDERATIONS

### Disposal instructions

Dispose off contents/container in accordance with local/regional/ national/international regulations

## TRANSPORT INFORMATION

<b>UN Number :</b>	1760
<b>UN proper shipping name</b>	CORROSIVE LIQUID, N.O.S. (Quaternary ammonium compounds, benzyl-C12-14- alkyldimethyl, chlorides)
<b>Transport hazard class(es)</b>	8
<b>Packing group</b>	II
<b>Environmental hazards</b>	Yes

## REGULATORY INFORMATION

### Safety, health and environmental regulations :

None as per data available specific for the product in question

## OTHER INFORMATION

### Source of information :

In-house and literature

### Disclaimer

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**Issue date:** 28 AUGUST 2021

