



MATERIAL SAFETY DATA SHEET (MSDS)

Product Name:	BENZALKONIL 20	Document code:	PSJ-RD-FR-22-00
Chemical name:	n-Alkyl Dimethyl Benzyl Ammonium Chloride	Revision number:	00
Chemical class:	Cationic	Revision date:	

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 of 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	20 %
Water	7732-18-5	80 %

FIRST AID MEASURES

First aid procedures

Eye contact

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 contact

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

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