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MATERIAL SAFETY DATA SHEET

MANUFACTURER'S NAME: JEEN INTERNATIONAL CORP. CHEMTREC EMERGENCY TEL: 800-424-9300
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FAIRFIELD, NJ 07004 (COLLECT CALLS ACCEPTED)
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SECTION 1 - PRODUCT

PRODUCT TRADE NAME: **JEEQUAT 868P**

SECTION 2- COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Characterization:

Quaternary ammonium compounds, di-C-(12-18) alkyl dimethyl, chlorides
C-12/18 Dialkyl dimethyl ammonium chloride (~ 70 %); Isopropanol (~ 20%); Water (~ 10%)

CAS Number: **68 391-05-9**

EINECS Number: **269-924-1**

Hazardous Ingredients:

Substance	%	CAS Number	Symbols	R-Phrases
Isopropylalkohol	~20	000067-63-0	F	11
Quaternare Ammoniumverbindung	~70		C	34
Chlormethan, Methylchlorid	<5 ppm	000074-87-3	F,Xn	13-40-48/20
Dicetyldimonium Chloride		001812-53-9		

SECTION 3- HAZARDS IDENTIFICATION

Hazards Description: leichtentzündlich Corrosive
Special hazards to health and environment: Highly flammable Causes burns
Highly flammable. In use, may form flammable/explosive vapour-air mixture. Causes burns.
Contains Isopropyl Alcohol – flammable liquid! Avoid Sources of ignition! Contact with undiluted material may cause skin and eye burns.

SECTION 4- FIRST AID MEASURES

General Information: Highly flammable. In use, may form flammable/explosive vapour-air mixture. Causes burns.
After Inhalation: Remove the casualty into fresh air and keep him calm. Summon a doctor immediately.
After contact with skin: In case of contact with skin wash off immediately with plenty of water. Take for medical treatment
After contact with eyes: In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.
After ingestion: Rinse out the mouth and immediately seek medical attention
Advice to doctor: Detergents or surfactants cause irreversible damage to stomach and intestine lining. Do not induce vomiting but pump stomach with the addition of preparation containing defoamer.

SECTION 5- FIRE-FIGHTING MEASURES

Suitable extinguishing media: Alcohol foam, dry chemical, foam, carbon dioxide, water spray
Special hazards: In fires, hazardous combustion gases are formed.: Nitrogen oxides (NOx) Carbon monoxide (CO) Hydrogen chloride (HC1)
Additional information: Cool container at risk with water spray jet. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.
Special Fire Fighting: Wear self contained breathing apparatus and other protective clothing.
Unusual Fire Explosion: Flammable liquid – avoid ignition sources.



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SECTION 6- ACCIDENTAL RELEASE MEASURES

Personal Precautions: High risk of slipping due to leakage/spillage of product. Ensure adequate ventilation. Keep away from sources of ignition.
 Environmental Precautions: Do not discharge into the drains/surface waters/groundwater.
 Methods for Cleaning up/taking up: Take up with absorbent material (e.g. general-purpose binder). Dispose of absorbed material in accordance with the regulations.

SECTION 7- HANDLING AND STORAGE

Handling
 Advice on safe handling: Open container only in presence of local exhaust ventilation. Provide good room ventilation even at ground level (vapors are heavier than air).
 Advice on protection against fire and explosion: Keep away from sources of ignition. Do not smoke. Traces of flammable substances can collect in the vapor space of closed systems, therefore keep sources of ignition away. Take precautionary measures against static discharges.
 Storage
 Requirements for storage rooms and vessels: Use corrosion resistant containers.
 Further information on storage conditions: When stored in tank cover with a protective layer of nitrogen gas for protection.
 To assure product integrity and quality, store under cool, dry conditions.

SECTION 8- EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation requirements: Use adequate ventilation to maintain Isopropyl Alcohol below TLV of 400 ppm.
 Additional advice on system design: Loading: Use extra pipe for gas exchange and pay attention to explosion protection!
Don't use compressor!
 Ingredients with occupational exposure limits to be monitored limits:

Substance	CAS Number	Method	Value	Unit
2-Propanol	67-63-0	MAK	400	ml/m3
Chlormethan	74-87-3	MAK	50	ml/m3

Personal Protective Equipment
 Hand Protection: Protective Gloves
 Eye Protection: Face Shield
 Body Protection: Impermeable protective clothing
 Respiratory: Organic vapor respirator
 Other: Impervious protective apron

SECTION 9- PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid		
Color:	Light Yellow, Clear		
Odor:	Isopropanole		
Changes in Physical State			Test Method
Boiling Point (deg. C):	~83		Isopropanol
Flash Point (deg. C):	20	75°F closed cup	DIN 51755
Flammability			
Ignition Temp. (deg. C):	425		Isopropanol
Self-ignition			
Explosion Limits			
Lower (Vol - %):	2,0		Isopropanol
Upper (Vol - %):	12,0		
Vapour Pressure:			
Density (g/cm3):	~0.87	(26,7 deg.C)	(DGF C-IV 2)
Solubility in Water:	Dispersible	(20 deg. C)	
pH Value (20 deg. C):	6.5 – 8.5	(50 g/l)	(ISO 6384)
Viscosity (mPa.s):	<100	(20 deg. C)	(Brookfield)
Specific Gravity:	0.868	at 24°C	



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SECTION 10- STABILITY AND REACTIVITY

Stability: Stable
 Conditions to avoid: Avoid ignition sources
 Hazardous decomposition: Oxides of carbon and nitrogen
 Incompatibility (Materials to avoid): Strong oxidizing agents
 Hazardous Polymerization: Will not occur.

SECTION 11- TOXICOLOGICAL INFORMATION

*Corrosive to eyes and skin. (undiluted product)
 *In 5% dispersion "slightly irritant" to rabbit eye
 *In 5% solution "slightly irritant" to rabbit skin
 *No toxicological data are available. Analogous to a product with a similar composition.

Acute toxicity data
 LD50 Oral (mg/kg): rat >2.000 *
 LC50 inhalation (mg/l):

Acute oral toxicity: No data available.
 Dermal Toxicity: No data available.
 Dermal irritancy: In-Vitro Skin Corrosivity: Non-corrosive. (100%)
 In-Vitro: Moderate to mild irritation potential. (100%)
 Ocular irritancy: No data available.
 Carcinogenicity or other: No data available.

SECTION 12- ECOLOGICAL INFORMATION

Information on elimination (persistence / degradability):
 Readily eliminable from water
 No toxicological data are available; analogous to a product with a similar composition
 Dialky (C12) dimethyl ammonium chloride:
 90-92 % (7 days) River water dieaway *
 99 % (7 days) River water dieaway*
 Dialkyl (C18) dimethyl ammonium chloride:
 91-93 % (3 hours) Continuous-flow activated sludge*
 *Swisher, Surfactants Biodegradation 1987, page: 874/875

Further Information: Do not allow product to enter soil or waterways; on storage or before discharging into drainage systems follow the state of the art technology.

SECTION 13- ADVICE ON DISPOSAL

Disposal: In accordance with the regulations disposure by authorized companies
 Description: Detergents/Surfactants.
 Dispose of in accordance with local, state, and federal regulations.

SECTION 14- TRANSPORT INFORMATION

Land Transport
 ADR / RID: 3/26b
 Hazard number: 338
 UN number: 2924
 Hazard label: 3 + 8
 Packaging group III
 TVB: 2924 Flammable liquid, corrosive, n.o.s. (contains 2-Propanole) (contains quaternary ammonium compounds)
 Remarks
 Marine transport
 IMDG-Code: 3.2
 UN Number: 2924
 Hazard label: 3 + 8

IMDG page: 3231
IMDG packaging group: III



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SECTION 14- TRANSPORT INFORMATION continued:

EmS: 3-02
MFAG: 760 + 305
TVB:
Remarks: Un 2924, Flammable Liquid, Corrosive, N.O.S (contains 2-Propanole) (contains quaternary ammonium Compounds)

Air Transport

ICAO: 3
UN number: 2924
Hazard label: 3 + 8
Packing group: III
Packaging Instruction: 305 / 307
ICAO max. weight: 11 / 51
TVB:
Remarks: Flammable liquid, corrosive, n.o.s. (contains 2-Propanole) (contains quaternary ammonium compounds)

SECTION 15- REGULATORY INFORMATION

INTERNATIONAL CHEMICAL INVENTORY STATUS:
UNITED STATES TOXIC SUBSTANCES CONTROL ACT (TSCA): Not evaluated
EUROPEAN INVENTORY OF NEW AND EXISTING CHEMICAL SUBSTANCES (EINECS): Listed
AUSTRALIAN INVENTORY OF CHEMICAL SUBSTANCES (AICS): Listed
CANADIAN DOMESTIC / NON-DOMESTIC SUBSTANCE LISTS: Not listed

SARA 312: Immediate Hazard-flammable, irritant.
SARA 313: Not reportable components.
Canadian WHIMIS: Contains isopropanol (cas# 67-63-0): 20-25%
California Proposition 65: No reportable components.

Labeling according to EEC-guidelines

Hazard symbols: F, C Highly flammable Corrosive

R phrases: 11-34 Highly flammable. Causes burns
S phrases: 16-26-28-37/39-45. Keep away from sources of ignition – No smoking. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water. Wear suitable protective gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

SECTION 16- OTHER INFORMATION

HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS):

HEALTH: 2 FIRE: 3 REACTIVITY: 0 PPE CODE: H

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) RATINGS:

HEALTH: 2 FIRE: 3 REACTIVITY: 0 ADDITIONAL INFORMATION: NONE

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