SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name	**Ester Quats 90/ Palm based ester quats**
Chemical Name	Triethanolamine dialkylester methosulphate
CAS Number	91995-81-2
EC Number	295-344-3

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Surfactant
Uses identified against	Not for use other than those specified

1.3 Details of the supplier of the safety data sheet:

Manufacturer	Prasol Chemicals Pvt. Ltd., Prasol House, Plot No.A-17/2/3, T.T.C. Indl. Area, Khairne M.I.D.C., Navi Mumbai - 400 710. Maharashtra, India.
Telephone	+91-22-27782555
Telefax	+91-22-27782430
e-mail address	sales@prasolchem.com; inquiry@prasolchem.com

1.4 Emergency telephone number

Telephone	+91-22- 27782555
Language	English

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Skin Corrosion	Category 2	H315	Causes skin irritation
Eye Irritation	Category 2	H319	Causes serious eye irritation
Specific Target Organ Toxicity, Single Exposure	Category 3	H335	May cause respiratory irritation
Aquatic chronic toxicity	Category 2	H411	Toxic to aquatic life with long lasting effects

Information concerning particular hazards for human and environment: No further information

2.2 Label elements

Labeling according to Regulation (EC) No 1272/2008 (CLP)

Hazard pictograms

GHS07

GHS09

Signal word	Warning	
Hazard statements	H315	Causes skin irritation
	H319	Causes serious eye irritation
	H335	May cause respiratory irritation
	H411	Toxic to aquatic life with long lasting effects
Precautionary statements		
General	P103	Read label before use.
Prevention	P261	Avoid breathing dust.
	P264	Wash hands thoroughly after handling.
	P271	Use only outdoors or in a well-ventilated area.
	P280	Use protective gloves and eye protection.
Response	P302+P352	IF ON SKIN: Wash with plenty of water.
	P304 +P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing
	P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
	P312	Call a doctor if you feel unwell.
	P321	Specific treatment- wash with plenty of water and mild soap.
	P332+P313	If skin irritation occurs: get medical advice
	P337+P313	If eye irritation persists: Get medical advice.
	P362+P364	Take off contaminated clothing and wash it before reuse.
Storage	P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
	P405	Store locked up.

Disposal	P501	Dispose of contents/container to in accordance with national regulations.

2.3 Other hazards

Not a PBT, vPVB substance according to the criteria of REACH regulation

SECTION 3: Composition/information on ingredients

3.1 Substances

Ingredient	CAS No.	EC No.	Concentration (%)
Triethanolamine dialkylester methosulphate	91995-81-2	295-344-3	90 min
Isopropanol	67-63-0	200-661-7	10 max

Additional information:

Molecular Formula	not applicable (UVCB)
Molecular Weight	not applicable (UVCB)

SECTION 4: First aid measures

4.1 Description of first aid measures

General information	Take off all contaminated clothing immediately.
After inhalation	If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If unconscious, evaluate the need for artificial respiration. Get immediate medical attention
After skin contact	Wash off with plenty of water immediately, seek medical advice if necessary.
After eye contact	Rinse with plenty of water immediately and seek medical advice.
After swallowing	Do not induce vomiting and seek medical advice immediately.
4.2 Most important symptoms and effects, both acute and delayed	Causes eye, skin, and respiratory tract irritation
4.3 Indication of any immediate medical attention and special treatment needed	Treat symptomatically

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	CO_2, dry powder, foam or water spray
Unsuitable extinguishing media	water jet
5.2 Special hazards arising from the substance or mixture	Heating or fire can release toxic gas (Nitrogen oxides (NOx), Carbon monoxide), sulphur oxides
5.3 Advice for firefighters	Do not expose to high temperature. Danger of bursting and explosion. Use fine water spray to cool endangered containers. Move undamaged containers from immediate hazard area. Do not allow fire water to penetrate into surface or ground water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures	Remove persons not involved upwind. Wear a self-contained breathing apparatus and chemical protective clothing. Solvent-resistant protective clothing recommended.
6.2 Environmental precautions	Plug leak if safely possible. Do not allow to enter drains, surface waters, basements or pits.
6.3 Methods and material for containment and cleaning up	In case of spills of large quantities: Dam spills and pump to remove. Absorb leftover product with non-flammable liquid-binding material (e.g. earth, sand, vermiculite or ground sand stone) and place in closed containers for disposal.
6.4 Reference to other sections	Section 8 for information on personal protection equipment. Section 13 for disposal information

SECTION 7: Handling and storage

7.1 Precautions for safe handling	Provide adequate ventilation, and local exhaust as needed. Provide room air exhaust at ground level. Concentrated vapours are heavier than air. Avoid the formation of aerosol. Do not breathe vapours. Use only explosion-protected

equipment/instruments.

7.2 Conditions for safe storage, including any incompatibilities

Advice on protection against fire and explosion	Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharge. Beware of re-ignition.
Storage	Keep container dry. Keep container tightly closed in a cool, well-ventilated place. Protect from direct sunlight.
Advice on common storage	Observe prohibition against storing together!
Storage class	-
Storage stability	Stable under recommended storage conditions
7.3 Specific end use(s)	As given in Section 1

SECTION 8: Exposure controls/personal protection

8.1 Control parameters	no exposure limits determined		
8.2 Exposure controls			
Appropriate engineering controls	Provide good ventilation and/or an exhaust system in the work area.		
Personal protective equipment			
Eye/ face protection	closed goggles, face shield		
Skin protection			
Hand protection	Butyl-rubber	0.5 mm	> 480 min
Body protection	Use solvent-resistant protective clothing. Flame-retardant antistatic protective clothing; safety shoes		
Respiratory protection	Respiratory equipment with suitable filter or a self-contained respiratory apparatus.		
Thermal hazards	Do not expose to extreme heat		
Industrial hygiene	Do not inhale vapours / aerosols. Avoid contact with skin and eyes. Remove immediately all contaminated clothing. Use disposable clothing if appropriate. Smoking, eating and drinking should be prohibited in the application area.		

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Yellow paste at 25°C
Odour	amine like
Odour threshold	no data available
pH	2.0 – 4.0
Melting point	solid at 20°C
Boiling point	not determined
Flash point	<21°C (Closed cup)
Evaporation rate	no data available
Flammability (solid, gas)	not applicable
Flammability limits	not applicable
Vapour pressure	not determined
Vapour density	not determined
Relative density	0.98at 50°C
Solubility in water	soluble at 20°C
Partition coefficient	not applicable
Ignition temperature	no self-ignition up to the melting range
Decomposition temperature	no data available
Viscosity at 20 °C	not determined
Explosive properties	no explosive properties (structural reasons)
Oxidizing properties	no oxidizing properties (structural reasons)

9.2 Other information

Heat of combustion	-
Heat of vaporization	-

SECTION 10: Stability and reactivity

10.1 Reactivity No dangerous reactions if stored and handled as indicated. Forms no flammable gases in contact with water. Non-oxidizing.

10.2	**Chemical stability**	Under storage at normal ambient temperatures (-40°C to +40°C), the product is stable.
10.3	**Possibility of hazardous reactions**	No known hazardous reactions if used as directed
10.4	**Conditions to avoid**	Heat, flames and sparks. avoid static electricity discharge
10.5	**Incompatible materials**	Strong acids and oxidizing agents
10.6	**Hazardous decomposition products**	Thermal decomposition products- Nitrogen oxides (NOx), Carbon monoxide, sulphur oxides

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50	oral	rat	>4250mg/kg bw
LD50	dermal	rabbit	>2000mg/kg bw

Skin irritation	causes skin irritation
Serious eye irritation	causes eye irritation
Respiratory or skin sensitization	No sensitizing effects known
Germ cell mutagenicity	non mutagenic (Ames test)
Carcinogenicity	no indications for a carcinogenic potential
Reproductive toxicity	no adverse effect on reproduction (rat)
STOT-single exposure	irritating to eye and skin
STOT-repeated exposure	no data available
Aspiration hazard	no data available

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Toxicity to fish	LC50	96h	7.1mg/L	*Pimephales promelas*
Toxicity to aquatic invertebrates	EC50	48h	2.4mg/L	*Daphnia magna*
Toxicity to aquatic algae and cyanobacteria	ERC50	72h	3.1mg/L	*Desmodesmus subspicatus*
Toxicity to microorganisms	EC50	-	222.5mg	activated sludge

12.2 Persistence and degradability	
Biodegradation	readily biodegradable
12.3 Bioaccumulative potential	low potential for bioaccumulation
12.4 Mobility in soil	no data
12.5 Results of PBT and vPvB assessment	Not a PBT, vPvB substance according to the REACH regulation
12.6 Other adverse effects	No further information available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Observe all federal, state, and local environmental regulations.
Contact a licensed professional waste disposal service to dispose of this material.
Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
Do not dispose in sewage.

SECTION 14: Transport information

		ADR/RID	IMDG	ICAO/IATA
14.1	**UN Number**	1325	1325	1325
14.2	**UN proper shipping name**	Flammable solids, organic, n.o.s containing Isopropanol		
14.3	**Transport hazard class**	4.1	4.1	4.1
14.4	**Packaging group**	II	II	II
14.5	**Environmental hazards**	marine pollutant		
14.6	**Special precautions for the user**	corrosive and irritant; Danger		
14.7	**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	See regulatory information for transport approval		

SECTION 15: Regulatory information

◆ **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Major accident hazard	**Seveso III**	E1 (Hazardous to the aquatic environment)
International Chemical Inventory Status		
USA (TSCA)	listed	
Canada (DSL)	listed	
Australia (AICS)	listed	
Japan (MITI)	listed	
Korea (KECL)	listed	
Philippines (PICCS)	listed	
China	listed	
New Zealand	listed	
Taiwan	listed	
15.2 Chemical safety assessment	A Chemical Safety Assessment will be carried out at the time of REACH registration	

◆ SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Further information:

Sections in which changes have been made since the last version are marked with a diamond ◆ in the left hand margin.

Abbreviations and acronyms in English language:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
AICS	Australian Inventory of Chemical Substances
CAS	Chemical Abstracts Service (division of the American Chemical Society)
CLP	Classification for Labeling and Packaging
DSL	Domestic Substances List
EC	European Commission
EC50	Half maximal effective concentration
EINECS	European Inventory of Existing Commercial Chemical Substances
GHS	Globally Harmonized System of Classification and Labeling of Chemicals
IATA	International Air Transport Association
IBC	International Bulk Chemical
ICAO	International Civil Aviation Organization
IMDG	International Maritime Code for Dangerous Goods
KECL	Korea Existing Chemicals List
KOC	Soil adsorption coefficient
KOW	Partition Coefficient octanol-water
LC50	Lethal concentration, 50 percent
LD50	Lethal dose, 50 percent
MARPOL	International Convention for the Prevention of Pollution from Ships
MITI	Ministry of International Trade and Industry
NOAEC	No Observed Adverse Effect Concentration
NOAEL	No Observed Adverse Effect Level
PBT	Persistent, bioaccumulative and toxic substances
PICCS	Philippine Inventory of Chemicals and Chemical Substances
RID	Regulations Concerning the International Transport of Dangerous Goods by Rail
STOT	Specific target organ toxicity
TSCA	Toxic Substances Control Act
UN	United Nations
vPVB	(very) Persistent, (very) Bioaccumulative

Sources

Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

ECHA https://echa.europa.eu/substance-information/-/substanceinfo/100.086.636