

MATERIAL SAFETY DATA SHEET

NAME OF MANUFACTURER / SUPPLIER MK-Produkter Mekanik & Kemi AB
Box 8
S-183 21 Täby
Sweden
BUSINESS / EMERGENCY TELEPHONE No +46-8-514 00 550
FAX +46-8-510 147 18
EMAIL info@mk-produkter.se
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1 SUBSTANCE / PRODUCT IDENTIFICATION

PRODUCT NAME TIOPLEX UN
PRODUCT TYPE TEA REACTED WITH FATTY ACIDS

2 COMPOSITION INFORMATION

PRODUCT CHEMICAL FAMILY Non Specified Preparation
CAS NUMBER n/a

Products giving rise to Risk / Safety phrases

<u>PRODUCT</u>	<u>% WT</u>	<u>CAS NUMBERS</u>	<u>HAZARD PHRASES</u>
TRIETHANOLAMNE	<60	102-71-6	Xn; R22,38,41,48/22 Xi; R36/38

3 HAZARDS IDENTIFICATION

RISK PHRASES R38/41, irritating to skin and eyes.

4 FIRST AID MEASURES

INGESTION DO NOT INDUCE VOMITING. Milk or water may be beneficial. Seek medical attention.
EYES Flush with water for at least 15 minutes. Seek medical attention if eye irritation develops or persists.
SKIN Wash with soap and water and apply skin reconditioning cream. Seek medical attention if irritation develops. Launder contaminated clothing.
INHALATION Remove exposed person to fresh air if adverse effects are observed.
ADDITIONAL INFORMATION Note to physician: treat symptomatically.

5 FIRE FIGHTING MEASURES

FLASH POINT (TYPICAL) >150°C (PMCC)
PRODUCTS OF COMBUSTION Mainly oxides of carbon and water vapour with small amounts of other unidentified organic compounds.
EXTINGUISHING MEDIA Carbon dioxide, dry chemical or foam. Use water to cool and protect exposed material.
FIRE FIGHTING PROCEDURES The wearing of self-contained breathing apparatus is recommended. Water may cause splattering.
UNUSUAL FIRE & EXPLOSIVE HAZARDS Large surface areas exposed to air/oxygen (e.g. oil soaked rags, paper or absorbed spillage) may be easily ignited and should be cleared up at once. Toxic fumes; gases or vapours may evolve on combustion.

6 ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURES Wear appropriate clothing. Soak liquid in absorbent material for disposal. Wash down floor area, as spillage may be slippery. Larger spillage should be contained with sand or earth and collected in salvage container for disposal.

7 HANDLING AND STORAGE

HANDLING Keep containers closed when not in use. Wash thoroughly after handling. Empty containers contain residue, which may exhibit hazards of product.
STORAGE Preferred storage materials are steel or epoxy/synthetic containers. Suitable storage materials are: most common metals, polyethylene, glass. Protect against extremes of temperature.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS (O.E.L.)
VENTILATION PROCEDURES
HAND PROTECTION
EYE PROTECTION
SKIN PROTECTION

None assigned. Use only within the recommended operating dilutions.
Use with adequate ventilation. Avoid breathing spray formed during machine operations.
Use gloves when handling the concentrate. Barrier creams may be beneficial.
Use chemical safety glasses or face shield.
Industrial overall would be suitable but protection of forearms is recommended.

9 TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE @ 15.5°C	Amber liquid
TOTAL ALKALINITY % AS NaOH	30 - 34
SPECIFIC GRAVITY @ 15.5°C	1.044 – 1.064
PH @ 2% IN TAP WATER	9.0 – 9.3
TOTAL VOC %	0,003
MISCIBILITY WITH WATER	Complete
MISCIBILITY WITH SOLVENTS	Miscible with most organic solvents

It is the policy of Trident Fluid Technology Int. Limited to continually improve the performance of their product range and therefore reserve the right to change their technical specifications without notice.

10 STABILITY AND REACTIVITY

STABILITY	Material is normally stable at moderately elevated temperatures and pressures
INCOMPATIBILITY	Strong oxidising agents,

11 TOXICOLOGICAL INFORMATION

EYE IRRITATION	Risk of serious damage to eyes.
SKIN IRRITATION	Can irritate skin. Prolonged or repeated exposure may cause dermatitis
RESPIRATORY IRRITATION	If material is misted or if exposure to vapours generated through heating occurs, irritation of mucous membranes and the upper respiratory tract may occur. Under normal standards of industrial hygiene, respiratory irritation should not occur.
SUB-ACUTE/CHRONIC TOXICITY	There are no reports of adverse long-term effects following repeated exposure.

12 ECOLOGICAL INFORMATION

WGK CLASSIFICATION	Preliminary WGK (self classification) = 1- 2
MOBILITY	This product is involatile and water-soluble.
DEGRADABILITY	This product is not readily biodegradable.
BIOACCUMULATION	This product, as supplied is not expected to bio-accumulate.
ECOTOXITY	This product, as supplied, is not expected to be hazardous to aquatic species.

13 DISPOSAL CONSIDERATION

WASTE DISPOSAL	Material if discarded is not expected to be a characteristic hazardous waste. Disposal should be in accordance with local regulations.
CONTAINER DISPOSAL	Do not incinerate closed containers

14 TRANSPORT INFORMATION

UN NUMBER	Not applicable	IMDG	Not applicable
UN CLASSIFICATION	Not classified	ICAO/IATA Class	Not classified
PACKAGING GROUP	Not applicable		
UK 'PG' REGULATIONS	This product is not classified as being hazardous for transportation.		
TARIFF CODE	3403 1999 00		

15 REGULATORY INFORMATION

CLASSIFICATION SYMBOL	Xi –IRRITANT
RISK PHRASES	R38/41, irritating to skin and eyes.
SAFETY PHRASES	S37/39, wear suitable gloves and eye/face protection.
EC DIRECTIVES	Environmental Protection Act 1990. Control of Hazardous Substances to Health Regulations (COSHH) 1988 Chemicals (Hazard Information and Packaging) Regulations.

16 OTHER INFORMATION

PRODUCT GUIDANCE

The data and advice given apply to the product as sold and for the stated application only. Use of the product for other applications not stated may give rise to risks not mentioned in this document. It is not recommended for other applications without seeking advice.

HEALTH & SAFETY GUIDANCE

If the product is for supply from a third party for use at work, it is your duty to take all necessary steps to ensure any person handling or using it is provided with the information in this document. If you are an employer it is your duty to familiarise your employees and others who may come into contact with the product, with the hazards described and any precautions that may be necessary in use, as required by the HSW Act, COSHH, Management of Health and Safety at work regulations or other health and safety legislations.

SOURCES OF KEY DATA

Manufacturers safety data sheets. National and international regulations.

THE DATA AND ADVICE GIVEN APPLY WHEN THE PRODUCT IS SOLD FOR THE STATED APPLICATIONS ONLY. USE OF THE PRODUCT FOR OTHER APPLICATIONS NOT STATED MAY GIVE RISE TO RISKS NOT MENTIONED IN THIS DATA SHEET. IT IS NOT RECOMMENDED FOR OTHER APPLICATIONS WITHOUT SEEKING ADVICE.