



SAFETY DATA SHEET

according to REGULATION (EC) No 1907/2006

Print date: 06/13/2011

Version: 2

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product trade name: **SynDeck SB1222**

Internal code: SB1222E

Use of the substance/preparation

Application: Primer

Company/undertaking identification

Supplier: Epmar Corporation
13210 E. Barton Circle
Santa Fe Springs, CA 90605-3254
Phone: 562-946-8781
FAX: 562-944-9958
E-MAIL: info@epmarcorp.com
E-MAIL: she@quakerchem.com
(For Health and Safety Questions)

National contact: Quaker Chemical B.V.
Industrieweg 7
1422 AH Uithoorn
The Netherlands
Phone: +31 297 544644
Fax: +31 297 544694
Internet: www.quakerchem.com

Technical contact point: Epmar Corporation
13210 E. Barton Circle
Santa Fe Springs, CA 90605-3254
Phone: 562-946-8781
FAX: 562-944-9958
E-MAIL: info@epmarcorp.com
E-MAIL: she@quakerchem.com
(For Health and Safety Questions)

Emergency telephone number: **+31 30 2748888** - Nationaal Vergiftigingen Informatie Centrum (NL)
This number is only accessible for the doctor in case of accidental poisoning.

2. HAZARDS IDENTIFICATION

Indication of danger:

C - Corrosive.


Most important hazards:

R34 - Causes burns.

R21/22 - Harmful in contact with skin and if swallowed.

R42/43 - May cause sensitization by inhalation and skin contact.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature of the substance or preparation:

Product is a mixture of:
amine, additives.

HAZARDOUS COMPONENTS

Components	CAS No.	EC No.	Weight %	Classification
Trimethylolpropane polyoxypropylene triamine	39423-51-3	500-105-6	30 - 100	C;R34 Xn;R21/22
Piperazine	110-85-0	203-808-3	1 - 5	C;R34 Xi;R42/43 R52/53
Aminoethylpiperazine	140-31-8	205-411-0	< 1	C;R34 R43 R52-53 Xn;R21/22

4. FIRST AID MEASURES

General advice:

Show this safety data sheet to the doctor in attendance.

Inhalation:

Move to fresh air. Consult a physician.

Skin contact:

Take off all contaminated clothing immediately. Discard contaminated shoes. Wash off immediately with soap and plenty of water. Call a physician immediately.

Eye contact:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately.

Ingestion:

Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting. Call a physician immediately.

Note to physician: Treat symptomatically. In case of ingestion, the stomach should be emptied by gastric lavage under qualified medical supervision. Material is corrosive. It may not be advisable to induce vomiting. Possible mucosal damage may contraindicate the use of gastric lavage.

5. FIRE-FIGHTING MEASURES

Flash Point (°C): 132

Flash point method: COC

Explosion limits:

- lower: Not applicable
- upper: Not applicable

Suitable extinguishing media: Use dry chemical, CO2, water spray or "alcohol" foam

Extinguishing media which must not be used for safety reasons: High volume water jet

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases: Carbon monoxide (CO)

Specific hazards: No information available

Unusual hazards: None known

Special protective equipment for fire-fighters: Standard procedure for chemical fires.

Specific methods: Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Ensure adequate ventilation.

Environmental precautions: Do not flush into surface water or sanitary sewer system.

Methods for cleaning up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

7. HANDLING AND STORAGE

Handling

Technical measures/precautions: Provide sufficient air exchange and/or exhaust in work rooms.

Safe handling advice: In case of insufficient ventilation, wear suitable respiratory equipment.

Storage

Technical measures/storage conditions: Store at room temperature in the original container

Incompatible products: No special restrictions on storage with other products

Safe storage temperature: 15 - 50 °C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limit Values

Piperazine

EU - STEL	0.3 mg/m ³
EU - TWA	0.1 mg/m ³
Austria - OEL - STEL	0.3mg/m ³
Austria - OEL - TWA (MAK)	0.1mg/m ³
Belgium - OEL - STEL	0.3 mg/m ³ STEL
Belgium - OEL - TWA (MAK)	0.1 mg/m ³ TWA
Czech Republic - OEL - TWA	0.1mg/m ³
Denmark - OEL - TWA	0.003ppm 0.1mg/m ³
Estonia - OEL - STEL	0.3mg/m ³
Estonia - OEL - TWA	0.1 mg/m ³ TWA
Finland - OEL - STEL	0.084ppm 0.3mg/m ³
Finland - OEL - TWA	0.028ppm 0.1mg/m ³
France - OEL - STEL	0.3mg/m ³
France - OEL - TWA	0.1mg/m ³
Germany OEL - TRGS 900 - TWAs	0.1 mg/m ³
Greece - OEL - STEL	0.3mg/m ³
Greece - OEL - TWA	0.1mg/m ³
Hungary - OEL - STEL	0.3mg/m ³
Hungary - OEL - TWA	0.1mg/m ³
Iceland - OEL - STEL	0.3mg/m ³
Iceland - OEL - TWA	0.1mg/m ³
Ireland - OEL - STEL	0.3mg/m ³
Ireland - OEL - TWA	0.1mg/m ³
Italy - OEL - TWA	0.1mg/m ³
Italy - OEL - STEL	0.3mg/m ³
Netherlands - OEL - STEL	0.3 mg/m ³
Netherlands - OEL - TWA	0.1 mg/m ³
Norway - OEL - TWA	0.1 ppm 0.3 mg/m ³
Poland - OEL - STEL	0.3 mg/m ³
Poland - OEL - TWA	0.1 mg/m ³
Spain - OEL - STEL (VLA-EC)	0.3mg/m ³
Spain - OEL - TWA (VLA-ED)	0.1mg/m ³

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Sweden - OEL - STEL (STV)	0.3ppm 1mg/m ³
Sweden - OEL - TLV (LLV)	0.1ppm 0.3mg/m ³
United Kingdom - WEL - STEL	0.3mg/m ³
United Kingdom - WEL - TWA	0.1mg/m ³

Further information: None

Exposure controls

Occupational exposure controls

Engineering measures:	Ensure adequate ventilation.
Respiratory protection:	In case of insufficient ventilation wear suitable respiratory equipment.
Hand protection:	Neoprene gloves
Eye protection:	Safety glasses
Skin and body protection:	Long sleeved clothing

Environmental exposure controls

Recommendations: None

9. PHYSICAL AND CHEMICAL PROPERTIES

General information

Physical state:	Liquid
Color	Amber
Odor	Amine-like

Important health, safety and environmental information

<u>Property</u>	<u>Result</u>	<u>Method</u>
pH:	Not applicable	ASTM D 1293
at	100 (%)	-
Boiling point/range (°C):	>100	ASTM D 1120
Flash Point (°C):	132	COC
Flammability (solid/gas):	No data available	-
Explosive Limits:		

- upper limit:	No data available	-
- lower limit:	No data available	-
Oxidising properties:	No data available	-
Vapor pressure (hPa):	No data available	-
Relative density:	0.989 (g/cm ³)	ASTM D 1298
at	15 (°C)	
Solubility:		
- water solubility:	Not soluble	-
- fat solubility:	Not determined	-
Partition coefficient (n-octanol/water):	Not determined	-
Viscosity:	180 (cP)	ASTM D 445
at	25 (°C)	-
Vapour density:	No data available	-
Evaporation rate:	No data available	-

Other information

Property	Result	Method
Miscibility:	Not determined	-
Conductivity:	Not determined	-
Melting point/range (°C):	<0	-
Gas group:	Not determined	-
Auto-ignition temperature (°C):	Not determined	-
Molecular weight:	Not determined	-
Decomposition temperature (°C):	Not determined	-

10. STABILITY AND REACTIVITY

Stability:

Stable under recommended storage conditions.

Conditions to avoid:

None known

Materials to avoid:

Strong oxidizing agents

Hazardous decomposition products:

None under normal use

Hazardous Polymerization:

Not applicable

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

LD50 (oral/rat): 200 - 2000 mg/kg (calculated)

Long-term effects

Other long-term effects: No data available

Local effects

Oral: No data available

Inhalation: No data available

Skin irritation: No skin irritation

Eye irritation: Contact with eyes may cause irritation

Sensitization: May cause sensitization of susceptible persons

Additional toxicological information: None

12. ECOLOGICAL INFORMATION

Ecotoxicity

Piperazine

Ecotoxicity - Fish Species Data: LC50 (Lepomis macrochirus - 96h) = 10000 mg/L

Aminoethylpiperazine

Ecotoxicity - Fish Species Data: LC50 (Pimephales promelas - 96h) = 1950-2460 mg/L
LC50 (Poecilia reticulata - 96h) = 1000 mg/L
LC50 (Oncorhynchus mykiss - 96h) = 100 mg/L

Inhibitory effects: None known

Behaviour in sewage treatment plants: None known

Mobility

Distribution to environmental compartments: No data available

Surface tension: No data available

Persistence and degradability

BOD Not determined

Potential degradation: Not determined

Degradation half life: Not determined

Degradation in sewage treatment plants: Not determined

Bioaccumulative potential

Bioaccumulation: Not available

Other adverse effects

Ozone depletion potential (R-11 = 1): Not determined

Photochemical ozone creation potential: Not determined

Global warming potential: Not determined

13. DISPOSAL CONSIDERATIONS

Waste from residues/unused products: Dispose of in accordance with local regulations

Contaminated packaging: Dispose of as unused product.

Methods for cleaning up: No information available

EWC waste disposal No.: 08 01 11*

14. TRANSPORT INFORMATION

ADR

UN nr: 2922
Class: 8
Label: 8 + 6.1
Classification code: CT1
Packing group: III
Proper shipping name: CORROSIVE LIQUID, TOXIC, N.O.S.
Limited quantity: LQ7
Shipping description: UN2922 CORROSIVE LIQUID, TOXIC, N.O.S. (Contains Polyoxypropylene triamine, Piperazine and N-Aminoethylpiperazine), 8 (6.1), III, (E)

15. REGULATORY INFORMATION

EC classification and labelling (67/548/EEC - 1999/45/EC)

Indication of danger: C - Corrosive.



R phrases:

R34 - Causes burns.

R21/22 - Harmful in contact with skin and if swallowed.

R42/43 - May cause sensitization by inhalation and skin contact.

S phrases:

S23 - Do not breathe gas/fumes/vapours/aerosols.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

S24/25 - Avoid contact with skin and eyes.

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

15. REGULATORY INFORMATION

National regulations

Water endangering class - WGK (D): 1 (S)

Maladies Professionnelles (F): Not listed

EC EINECS/ELINCS/NLP list: This product complies with EINECS

16. OTHER INFORMATION

List of relevant R phrases

R34 - Causes burns.

R43 - May cause sensitization by skin contact.

R21/22 - Harmful in contact with skin and if swallowed.

R42/43 - May cause sensitization by inhalation and skin contact.

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Further information:

Training advice: See our technical data sheet.

Concentration to be used:

- min.(%): 100
- max. (%): 100

Technical contact point:

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E-MAIL:she@quakerchem.com
(For Health and Safety Questions)

Prepared by: Department for Safety, Health and Environmental Affairs Department - Europe

Sources of key data used to compile the data sheet: Material safety data sheets of the ingredients.

Disclaimer

This product's safety information is provided to assist our customers in assessing compliance with safety/health/environmental regulations. The information contained herein is based on data available to us and is believed to be accurate. However, no warranty of merchantability, fitness for any use, or any other warranty is expressed or implied regarding the accuracy of this data, the results to be obtained from the use thereof, or the hazards connected with the use of the product. Since the use of this product is within the exclusive control of the user, it is the user's obligation to determine the conditions for safe use of the product. Such conditions should comply with all regulations concerning the product. Quaker Chemical Corporation ("Quaker") assumes no liability for any injury or damage, direct or consequential, resulting from the use of this product unless such injury or damage is attributable to the gross negligence of Quaker.

End of Safety Data Sheet