

Company identification:
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Material Data Safety Sheet (MSDS):

1. Product Identification

MSDS Name: XXXXXXXXXX

NFPA CODE (0-4)

HEALTH RATING	1
FLAMMABILITY RATING	0
REACTIVITY RATING	0

2. Composition/Information on Ingredients

CAS #	CHEMICAL NAME	%
60-00-4	ETHYLENEDIAMINE TETRAACETIC ACID	>30
102-71-6	DALTOGEN	>15
111-42-2	DIETHANOLAMINE	>10
57-13-6	CARBONYL DIAMIDE	>20

3. Hazards Identification

Emergency Overview

Route Of Entry - Inhalation: YES
Route Of Entry - Skin: YES
Route Of Entry - Ingestion: YES

Carcinogenicity - NTP: NO
Carcinogenicity - IARC: NO
Carcinogenicity - OSHA: NO
Explanation Carcinogenicity: PER MSDS:DID NOT CAUSE CANCER IN LONG-TERM ANIMAL STUDIES.

Potential Health Effects

Inhalation:

NO ADVERSE EFFECTS ANTICIPATED BY EXPOSURE INCIDENTAL TO PROPER INDUSTRIAL HANDLING.

Ingestion:

SINGLE DOSE ORAL TOXICITY IS LOW.

Skin Contact:

PROLONGED/REPEATED EXPOSURE NOT LIKELY TO CAUSE SIGNIFICANT SKIN IRRITATION.

Skin Absorption:

SINGLE PROLONGED EXPOSURE NOT LIKELY TO RESULT IN MATERIAL BEING ABSORBED THROUGH SKIN IN HARMFUL AMOUNTS.

Eye Contact:

MAY CAUSE SLIGHT TRANSIENT (TEMPORARY) IRRITATION. CORNEAL INJURY IS UNLIKELY.

Chronic Exposure:

REPEATED EXCESSIVE EXPOSURE MAY CAUSE INCREASED FAT LEVELS IN BLOOD AND SLIGHT TRANSIENT EYE IRRITATION. LARGE INGESTED AMOUNTS CAUSE INJURY. CENTRAL NERVOUS SYSTEM EFFECTS, INCREASED BLOOD SUGAR LEVELS.

Aggravation of Pre-existing Conditions:

NONE SPECIFIED BY MANUFACTURER.

4. First Aid Measures

Inhalation:

NO ADVERSE EFFECTS ANTICIPATED BY EXPOSURE INCIDENTAL TO PROPER INDUSTRIAL HANDLING.

Ingestion:

INDUCE VOMITING IF LARGE AMOUNTS ARE INGESTED. CONSULT MEDICAL PERSONNEL.

Skin Contact:

WASH OFF IN FLOWING WATER OR SHOWER.

Eye Contact:

IRRIGATE IMMEDIATELY WITH WATER FOR AT LEAST 5 MINUTES.

Medical Notes:

NO SPECIFIC ANTIDOTE. SUPPORTIVE CARE. TREATMENT BASED ON JUDGEMENT OF PHYSICIAN IN RESPONSE TO REACTIONS OF PATIENT.

5. Fire Fighting Measures

Flash point: NOT AVAILABLE

Autoignition temperature: NOT AVAILABLE

Flammable limits in air % by volume: LEL: N/DETERMINED; UEL:
N/DETERMINED

Fire Extinguishing Media:

WATER FOG, ALCHOL-RESISTANT FOAM, CO2.

Special Information:

WEAR POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS.

6. Accidental Release Measures

Small Spills: COVER WITH ABSORBENT MATERIAL, SOAK UP & SWEEP INTO DRUM.

Large Spills: DIKE AROUND SPILL & PUMP INTO SUITABLE CONTAINERS.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

7. Handling and Storage

Precautions-Handling/Storing: PRACTICE REASONABLE CARE/CAUTION.
Other Precautions: NONE SPECIFIED BY MANUFACTURER.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

CAS NO.	ACGIH - TLV mg/m3	OSHA - PEL mg/m3
60-00-4	N.R	N.R
102-71-6	5	5
111-45-2	2	2
57-13-6	10	15

PEL - Permissible exposure limit

TLV - Threshold limit valve

Ventilation System:

CONTROL AIRBORNE CONCENTRATIONS BELOW EXPOSURE GUIDELINES. GOOD GENERAL VENTILATION SHOULD BE SUFFICIENT FOR MOST CONDITIONS. LOCALIZED EXHAUST FOR SOME OPERATIONS.

Personal Respirators (NIOSH Approved):

ATMOSPHERIC LEVELS SHOULD BE MAINTAINED BELOW EXPOSURE GUIDELINES. WHEN RESPIRATION PROTECTION IS REQUIRED FOR CERTAIN OPERATIONS USE AN APPROVED AIR-PURIFYING RESPIRATOR.

Eye Protection:

USE SAFETY GLASSES.

Protective Gloves:

NONE, OTHER THAN CLEAN BODY-COVER CLOTHING.

Other Protective Equipment:

NONE SPECIFIED BY MANUFACTURER.

Work Hygienic Practices:

NONE SPECIFIED BY MANUFACTURER.

9. Physical and Chemical Properties

Appearance:	Colorless liquid
Odor:	ODORLESS
Solubility:	soluble
Density:	1.02
pH:	1% 9.5
% Volatiles by volume @ 21C (70F):	0
Boiling Point:	108 °C
Melting Point:	4 °C
Vapor Density (Air=1):	N.A.
Vapor Pressure (mm Hg):	N.A.
Evaporation Rate (Butyl Acetate=1):	N.A.

10. Stability and Reactivity

Stability:

YES

Hazardous Decomposition Products:
ACROLEIN

Hazardous Polymerization:
NO

Incompatibilities:
OXIDIZING MATERIAL

Conditions to Avoid:
AVOID STRONG OXIDIZING AGENT (SUCH AS SODIUM
HYPOCHLORITE, HPOCHLOROUS ACID).

11. Toxicological Information

CARCINOGENECITY

INGREDIENT CAS NO.	NTP CARCINOGEN		IRAC CATEGORY
	KNOWN	ANTICIPATED	
60-00-4	NO	NO	none
102-71-6	NO	NO	3
111-42-2	NO	NO	3
57-13-6	NO	NO	3

Epidemiology:

No information available.

Teratogenicity:

No information available.

Reproductive Effects:

No information available.

Neurotoxicity:

No information available.

Mutagenicity:

No information available.

Other Studies:

No data available.

12. Ecological Information

Environmental Fate: : NOT AVAILABLE

Environmental Toxicity: : NOT AVAILABLE

13. Disposal Considerations

Waste Disposal Method:

REPROCESS OR INCINERATE IN ACCORDANCE W/ALL LOCAL, STATE AND FEDERAL REQUIREMENTS.

14. Transport information

Proper shipping name		[REDACTED]	
DOMESTIC (LAND O.O.T.)		INTERNATIONAL (WATER,IMO)	
Hazzard class	<u>N.R</u>	Hazzard class	<u>N.R</u>
UN/NA	<u>N.R</u>	UN/NA	<u>N.R</u>
Packing group	<u>N.R</u>	Packing group	<u>N.R</u>

15. Other Information

MSDS Creation Date: 31.12.12 Revision 4 Date: 4.02.16

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