

DOW CHEMICAL U S A GOVERNMENT MARKETING -- 55894 MONOETHANOLAMINE, COMMERCIAL GRADE -- 6810-00-270-6207

===== Product Identification =====

Product ID:55894 MONOETHANOLAMINE, COMMERCIAL GRADE

MSDS Date:05/11/1989

FSC:6810

NIIN:00-270-6207

MSDS Number: BDRRX

=== Responsible Party ===

Company Name:DOW CHEMICAL U S A GOVERNMENT MARKETING

Address:2020 DOW CENTER

City:MIDLAND

State:MI

ZIP:48640-6030

Co

untry:US

Info Phone Num:517-636-4400

Emergency Phone Num:517-636-4400

CAGE:71981

=== Contractor Identification ===

Company Name:AMJAY CORP. DBA AMJAY CHEMICALS

Address:11200 WESTHEIMER SUITE 310

Box:218786

City:HOUSTON

State:TX

ZIP:77218-8786

Country:US

Phone:713-492-2000

CAGE:64184

Company Name:DOW CHEMICAL CO

Address:100 LARKIN CENTER

Box:City:MIDLAND

State:MI

ZIP:48674

Country:US

Phone:800-258-2436

CAGE:96717

Company Name:DOW CHEMICAL U S A

Address:BARSTOW BLDG

City:MIDLAND

State:MI

ZIP:48640

Country:US  
Phone:517-636-4400  
CAGE:71981

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Composition/Information on Ingredients  
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Ingred Name:ETHANOLAMINE  
CAS:141-43-5  
RTECS #:KJ5775000  
Fraction by Wt: >99%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:3 PPM/6 STEL  
ACGIH TLV:3 PPM/6 STEL; 9192

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Hazards Identification  
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LD50 LC50 Mixture:ORAL RAT LD50 IS 1720-2740 MG/KG RANGE  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:  
NO OSHA:NO  
Health Hazards Acute and Chronic:PRODUCT IS CORROSIVE TO BODY TISSUES,  
AND MAY BE ABSORBED THROUGH THE SKIN IN TOXIC AMOUNTS. IT MAY CAUSE  
LIVER AND/ OR KIDNEY DAMAGE, WHEN EXCESSIVE AMOUNTS ARE ENCOUNTERED  
BY ANY ROUTE.  
Explanation of Carcinogenicity:PRODUCT IS NOT LISTED AS A CARCINOGEN BY  
IARC, NTP, OR OSHA.  
Effects of Overexposure:EYE:SEVERE IRRITATION, BURNS. SKIN:  
IRRITATION,BURNS,ABSORPTION. INHALED:RESPIRATORY IRRITATION.  
INGESTION:G/ I IRRITATION,BURNS  
,ULCERATION.  
Medical Cond Aggravated by Exposure:PRE-EXISTING LIVER OR KIDNEY  
AILMENTS MAY BE AGGRAVATED BY EXPOSURE TO THIS COMPOUND.

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First Aid Measures  
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First Aid:EYE:FLUSH W/WATER 15 MIN, HOLD LIDS OPEN. SKIN:WASH WITH SOAP  
& WATER. REMOVE CONTAMINATED CLOTHING AND LAUNDER BEFORE REUSE.  
INHALED:REMOVE TO FRESH AIR. RESTORE BREATHING IF NECESSARY.  
INGESTED:DO NOT INDUCE VOMITING. GIVE 2 LARGE GLASSES OF MILK OR  
WATER AND GE

T IMMEDIATE MEDICAL CARE. GIVE NOTHING BY MOUTH IF UNCONSCIOUS. IF IRRITATION PERSISTS OR IS SEVERE,SEE A DOCTOR.

===== Fire Fighting Measures =====

Flash Point Method:SCC

Flash Point:201F,94C

Lower Limits:3.0

Upper Limits:23.5

Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL.

Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER SPRAY TO

COOL NEARBY CONTAINERS EXPOSED TO FIRE.

Unusual Fire/Explosion Hazard:VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG GROUND OR FLOOR, THEN 'FLASH BACK' FROM A DISTANT IGNITION SOURCE.

===== Accidental Release Measures =====

Spill Release Procedures:ADSORB WITH INERT MATERIAL,SUCH AS SAND, SAWDUST,ETC. SCOOP INTO CONTAINERS.

Neutralizing Agent:NONE

===== Handling and Storage =====

Handling and Storage Precautions:STORE IN A COOL, DRY AREA. PROTECT CONTAINERS FROM DAMAGE.

Other Precautions:DO NOT USE SODIUM NITRITE OR OTHER NITROSATING AGENTS WITH THIS MATERIAL. CARCINOGENIC NITROSOAMINES MAY BE FORMED.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:RESPIRATOR WILL NOT NORMALLY BE NECESSARY. USE NIOSH/MSHA APPROVED AIR SUPPLIED RESPIRATOR OR RESPIRATOR FOR ALKALINE/ ORGANIC MIST/VAPOR IF EXPOSURE IS ABOVE THE TLV/PEL. SEE 29 CFR 1910.134 FOR R

EGU LATIONS PERTAINING TO RESPIRATOR USE.

Ventilation:WHERE GENERAL VENTILATION IS NOT SUFFICIENT, SUPPLEMENT WITH LOCAL EXHAUST TO CONTROL PEL/TLV TO ACCEPTABLE LEVELS.

Protective Gloves:IMPERVIOUS

Eye Protection:SAFETY GLASSES OR SPLASH GOGGLES

Other Protective Equipment:SAFETY SHOWER AND EYE WASH STATION, ALSO WEAR IMPERVIOUS CLOTHING TO PROTECT FROM PHYSICAL CONTACT AS JOB DICTATES.

Work Hygienic Practices:USE STRICT CHEMICAL HYGIENE PRACTICE. AVOID CONTACT WHENEVER POSSIBLE.

WASH THOROUGHLY BEFORE EATING OR DRINKING.

Supplemental Safety and Health

MSDS NO 000185. PRODUCT CODE 55894. 'EMPTY' CONTAINERS MAY CONTAIN RESIDUE OR VAPOR. TREAT THEM WITH THE RESPECT DUE FULL ONES. DO NOT CUT,WELD,ETC. ON THEM.

===== Physical/Chemical Properties =====

HCC:B2

Boiling Pt:=171.C, 339.8F

Melt/Freeze Pt:=10.C, 50.F

Vapor Pres: