

ELF ATOCHEM NORTH AMERICA, TURCO PRODUCTS, INC. -- 05618. 2 TURCO ALKALINE RUST REMOVER (T-4181) -- 6850-01-213-8797

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

Product ID:05618. 2 TURCO ALKALINE RUST REMOVER (T-4181)

MSDS Date:06/30/1998

FSC:6850

NIIN:01-213-8797

Status Code:A

MSDS Number: C JLPP

=== Responsible Party ===

Company Name:ELF ATOCHEM NORTH AMERICA, TURCO PRODUCTS, INC.

Address:2375 STATE ROAD

City:CORNWELLS HEIGHTS

State:PA

ZIP:19020

Country:US

Info Phone Num:215-419-7890

Emergency Phone Num:800-424-9300(CHEMTREC)/215-245-3128

Chemtrec Ind/Phone:(800)424-9300

CAGE:TO254

=== Contractor Identification ===

Company Name:ELF ATOCHEM NORTH AMERICA

Address:THREE PARKWAY

City:PHILADELPHIA

State:PA

ZIP:19102

Phone:215-587-7679(CHEMTREC 800-424-9300)

CAGE:DO240

Company Name:ELF ATOCHEM NORTH AMERICA INC

Address:2375 STATE ROAD

Box:City:BENSALEM

State:PA

ZIP:19020

Country:US

Phone:215-245-3128

CAGE:02BJ0

Company Name:ELF ATOCHEM NORTH AMERICA, TURCO PRODUCTS, INC.

Address:2000 MARKET STREET

Box:City:PHILADELPHIA

State:PA

ZIP:19103

Country:US

Phone:215-419-7890

CAGE:TO254

Company Name:TURCO PRODUCTS, INC. DIVISION OF ELF ATOCHEM NORTH AMERICA

Address:2000 MARKET ST

Box:City:PHILADELPHIA

State:PA

ZIP:19103-3222

Country:US

Phone:215-419-7890

Contract Num:SP0450-99-M-ND68

CAGE:61102

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CAS:1310-73-2
RTECS #:WB4900000
> Wt:70.
Other REC Limits:NONE RECOMMENDED
OSHA PEL:2 MG/M3
ACGIH TLV:C 2 MG/M3; 9495
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:DIETHANOLAMINE (SARA 313) (CERCLA)
CAS:111-42-2
RTECS #:KL2975000
< Wt:5.
Other REC Limits:NONE RECOMMENDED
OSHA PEL:3 PPM
ACGIH TLV:0.46 PPM; 9495
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:TRIETHANOLAMINE
CAS:102-71-6
RTECS #:KL9275000
= Wt:15.
Other REC Limits:NONE RECOMMENDED
ACGIH TLV:5 MG/M3

Ingred Name:SODIUM GLUCONATE
CAS:527-07-1
RTECS #:LZ5235000
< Wt:10.
Other REC Limits:DUST = NUISANCE DUST
OSHA PEL:DUST, TWA,15 MG/M3
OSHA STEL:RESP D. TWA,5 MG/M3
ACGIH TLV:DUST,TWA 10 MG/M3

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===== Hazards Identification =====
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LD50 LC50 Mixture:LD50 ORAL RAT FOR NAOH = 340 MG/KG
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:EYES: CORROSIVE. CAUSES RAPID TISSUE
DESTRUCTION

, PERMANENT DAMAGE, POSSIBLE BLINDNESS. SKIN: CORROSIVE. SOLIDS/DUST CAUSE IRRITATION. PROLONGED EXPOSURE WILL CAUSE IRREVERSIBLE SCARRING. INHALATION: RESPIRATORY TRACT IRRITATION. INGESTION: WILL CAUSE SEVERE BURNS OF THE MOUTH AND THROAT. CHRONIC: KIDNEY DAMAGE, SKIN ULCERATIONS. TARGET ORGANS: EYES, SKIN, KIDNEY, AND LUNGS.

Effects of Overexposure:SEVERE IRRITATION, ITCHING, REDNESS AND PAIN, RAPID EYE TISSUE DESTRUCTION,PERM EYE DMG,BLINDNESS. IRRITATION. IRREVERSIBLE SCARRING.

Medical Cond Aggravated by Exposure:INDIVIDUAL WITH DISORDERS OF RESPIRATORY SYSTEM, SKIN AND KIDNEY MAY BE AT INCREASED RISK FOR EXPOSURE.

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First Aid Measures
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First Aid:INGESTION: DO NOT INDUCE VOMIT. GIVE PLENTY OF WATER/MILK. GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH SKIN AREA WITH SOAP AND WATER. GET MEDICAL ATTENTION. EYES: FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION. INHALATION: MOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTENTION.

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Fire Fighting Measures
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Extinguishing Media:WATER SPRAY, WATER FOG.
Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER.

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Accidental Release Measures
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Spill Release Procedures:CONFINE SPILL. STOP LEAK AT SOURCE. BE SURE AREA IS WELL VENTILATED. TRANSFER MATERIAL INTO DRUMS FOR DISPOSAL. WASH AREA WITH WATER. RESIDUAL AMOUNTS SHOULD BE FLUSHED TO CHEMICAL WASTE TREATMENT.
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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Handling and Storage
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Handling and Storage Precautions:DO NOT GET IN EYES, ON SKIN, OR CLOTHING. DO NOT BREATHE DUST, VAPOR, MIST,OR GAS. EMPTY CONTAINER MAY CONTAIN HAZARDOUS RESIDUES. KEEP CONTAINER

INNER CLOSED. WASH THOROUGHLY AFTER HANDLING.

Other Precautions:LIBERATES HEAT WHEN ADDED TO WATER. TO AVOID RAPID TEMPERATURE RISE, VIOLENT SPATTERING, EXPLOSIVE ERUPTIONS ALWAYS ADD PRODUCT TO WATER. NEVER ADD WATER TO PRODUCT. MIXING PROCEDURE: HEAT WATER TO 80 -100F; ADD SMALL AMOUNTS OF PRODUCT SLOWLY WHILE CONSTANTLY MIXING SOLUTION.KEEP WATER TEMP < 160F D URING MIXING.

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

Respiratory Protection:USE NIOSH APPROVED FULL FACE RESPIRATOR EQUIPMENT WHEN AIR EXPOSURE LIMITS EXCEEDED. IN EMERGENCY USE AN APPROVED FULL FACE POSITIVE-PRESSURE, SELF-CONTAINED BREATHING APPARATUS OR POSITIVE PRESSURE AIRLINE WITH AUXILIARY AIR SUPPLY. RESPIRATORY PROTECTION PROGRAMS MUST COMPLY WITH 29CFR 1910.134. USE A CARTRIDGE FILTER TYPE RESPIRATOR FOR DUST.

Ventilation:LOCAL EXHAUST. IF PRACTICAL, USE LOCAL MECHANICAL EXHAUST AT SOURCES OF AIR CONTAMINATION, SUCH AS OPEN PROCESS EQUIPMENT.

Protective Gloves:RUBBER OR NEOPRENE RECOMMENDED.

Eye Protection:FACESHIELD, CHEMICAL GOGGLES.

Other Protective Equipment:RUBBER BOOTS,APRON.

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDRER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health
PH OF 5% SOLUTION >12.0. "NEVER" INCREASE CONCENTRATION OF PRODUCT IN SOLUTION BY MORE THAN 5% WITH ANY SINGLE ADDITION OF PRODUCT TO THE SOLUTION.

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

HCC:B1

Melt/Freeze Pt:M.P/F.P Text:N/E

pH:12.0(5%SOLN)

Solubility in Water:SOLUBLE

Appearance and Odor:WHITE, FREE-FLOWING GRANULES.

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===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES
STRONG ACIDS.CONTACT WITH TIN, ZINC, ALUMINUM WILL RESULT IN THE FORMATION OF HYDROGEN, A FLAMMABLE AND POTENTIALLY EXPLOSIVE GAS.

Stability Condition to Avoid:PPRODUCT LIBERATES A GREAT DEAL OF HEAT

WHEN ADDED TO WATER. "ALWAYS" ADD PRODUCT TO WATER. "NEVER" ADD WATER TO PRODUCT.

Hazardous Decomposition Products:THERMAL DECOMPOSITION RESULTS IN DISCHARGE OF OXIDES OF CARBON AND NITROGEN COMPOUNDS.

===== Toxicological Information =====

Toxicological Information:CORROSIVE TO ALL TISSUES. SODIUM HYDROXIDE: DL50 ORAL RAT=340 MG/KG, LD50 DERMAL RAT=1350 MG/KG. TRIETHANOLAMINE: NO GENETIC CHANGES OBSERVED, LD50 ORAL RAT= 4200 TO 11200 MG/KG, LD 50 DERMAL RABBITS > 2000 MG/KG. DIETHANOLAMINE: LD50 ORAL RAT=700 - 2800 MG/KG, LD50 DERMAL RAT= 7500 - 12000 MG/KG. SODIUM GLUCONATE: NOT EXPECTED TO PRODUCE ANY SIGNIFICANT HEALTH EFFECTS.

===== Ecological Information =====

Ecological:TRIETHANOLAMINE: PRACTICALLY NON-TOXIC TO AQUATIC LIFE, LC50 .100 MG/L FOR ALL SPECIES TESTED. IT IS READILY BIODEGRADABLE. DIETHANOLAMINE: PRACTICALLY NONTOXIC TO FATHEAD MINNOWS, BLUEGILL, BRINE SH RIM P AND GOLDFISH (LC50= 800 - 2800 MG/L). IT IS SLIGHTLY TOXIC TO WATER FLEAS (LC50= 30-306 MG/L), AND MODERATELY TOXIC TO GREEN ALGAE (EC50 = 3.3 MG/L). IT READILY BIODEGRADES, HAS LOW OCTANOL/WATER PARTITION COEFFICIENT AND WOULD NOT BE EXPECTED TO BIOACCUMULATE IN AQUATIC SPECIES. SODIUM HYDROXIDE: MINIM LETHAL DOSE FOR AQUATIC LIFE IS 100 PPM TO 700 PPM.

===== Disposal Considerations =====

Waste Disposal Methods:ABSORB WITH NON-COMBUSTIBLE MATERIAL. PLACE MATERIAL IN DOT APPROVED WASTE CONTAINERS. KEEP OUT OF SEWERS, STORM DRAINS, SURFACE WATER. CONSULT FEDERAL, STATE, LOCAL AUTHORITIES FOR PROPER DISPOSAL PROCEDURES. CONTAINS SARA 313 REPORTABLE CHEMICAL: DIETHANOLAMINE.

===== MSDS Transport Information =====

Transport Information:PSN PER MSDS: SODIUM HYDROXIDE, SOLID, MIXTURE; CLASS 8; UN1823; PKG II.

===== Regulatory Information =====

SARA Tit

le III Information:CONTAINS DIETHANOLAMINE. EPA HAS CLASSIFIED
THIS MATERIAL A SARA 313 REPORTABLE CHEMICAL.

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