

FIX-OFF CO -- FIX-OFF -- 6810-00N075220

<pre>===== Product Identification =====

Product ID:FIX-OFF  
MSDS Date:05/22/1992  
FSC:6810  
NIIN:00N075220  
MSDS Number: CCTQL  
=== Responsible Party ===  
Company Name:FIX-OFF CO  
Address:23575 BLACKETT  
City:WARREN  
State:MI  
ZIP:48089  
Country:US  
Info Phone Num:313-777-0640  
Emergency Phone Num:313-777-0640  
CAGE:FXXXF  
=== Contractor Identification ===  
Company Name:FIX-OFF CO  
Address:23575 BLACKETT  
Box:City:WARREN  
State:MI  
ZIP:48089  
Country:US  
Phone:313-777-0640  
CAGE:FXXXF

===== Composition/Information on Ingredients =====

Ingred Name:WATER  
CAS:7732-18-5  
RTECS #:ZC0110000  
Fraction by Wt: >53%  
OSHA PEL:N/K  
ACGIH TLV:N/K

Ingred Name:1,2-PROPANEDIOL; (PROPANEDIOL)  
CAS:57-55-6  
RTECS #:TY2000000  
Fraction by Wt: 30%  
Other REC Limits:10 MG/M3 DOW (MFR)  
OSHA PEL:N/K  
ACGIH TLV:N/K

Ingred Name:GLYCEROL; (GLYCERIN)  
CAS:56-81-5  
RTECS #:MA8050000  
Fraction by Wt: 5%  
OSHA PEL:15 MG/M3 (MIST)  
ACGIH TLV:10 MG/M3 (MIST)

Ingred Name:UREA, 2-THIO-; (THIOUREA) (SARA 313) (CERCLA)  
CAS:62-56-6

RTECS #:YU2800000  
Fraction by Wt: 6%  
OSHA PEL:N/K  
ACGIH TLV:N/K  
EPA Rpt Qty:10 LBS  
DOT Rpt Qty:10 LBS

Ingred Name:CITRIC ACID; (CITRIC ACID ANHYDROUS)  
CAS:77-92-9  
RTECS #:GE7350000  
Fraction by Wt: 5%  
OSHA PEL:N/K  
ACGIH TLV:N/K

Ingred Name:PHENOL, 4,4'-(3H-2,1-BENZOXATHIOL-3-YLIDENE) BIS  
(2-BROMO-3-METHYL-6-(1-METHYLETHYL)-, S,S-DIOXIDE; (ING 7)  
CAS:76-59-5  
RTECS #:SJ7450000  
Fraction by Wt: 1%  
OSHA PEL:N/K  
ACGIH TLV:N/K

Ingred Name:ING 6:(BROMOTHYMOL BLUE DYE, DIBROMOTHYMOLSULFONPHTHALEIN)  
RTECS #:9999999ZZ

===== Hazards Identification =====

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO  
Health Hazards Acute and Chronic:ACUTE & CHRONIC:DEPRESSION OF BONE  
MARROW. SKIN AND EYE IRRITANT. THIOUREA IS POISONOUS IF SWALLOWED.  
SIGNS AND SYMPTOMS:DIARRHEA, EYE IRRITATION, FLAKING, TENDERNESS  
AND SOFTENING OF THE SKIN. SLIGHT IRRITATION OF MUCOUS MEMBRANES.  
NAUSEA.  
Explanation of Carcinogenicity:THIOUREA:IARC MONO, SUPP, VOL 7, PG 56,  
1987:GROUP 2B. NTP 7TH ANNUAL RPT ON CARCINS, 1994:ANTIC TO BE  
CARCIN. (SUPDAT)  
Effects of Overexposure:SEE HEALTH HAZARDS.  
Medical Cond Aggravated by Exposure:ALLERGIC REACTION MAY DEVELOP FROM  
SKIN CONTACT.

===== First Aid Measures =====

First Aid:INGESTION:CONTACT PHYSICIAN AT ONCE. SKIN:WASH WITH SOAP AND  
WATER. EYES:FLUSH WITH WATER FOR AT LEAST 15 MINUTES.  
INHALATION:REMOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF NOT  
BREATHING. ALWAYS CONSULT PHYSICIAN.

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

Flash Point Method:CC  
Flash Point:>200F,>93C  
Extinguishing Media:WATER SPRAY, DRY CHEMICAL, ALCOHOL FOAM, OR CARBON

DIOXIDE.

Fire Fighting Procedures:WEAR NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT .

Unusual Fire/Explosion Hazard:TOXIC OXIDES OF SULFUR MAY FORM DURING THERMAL DECOMPOSITION. CONTACT WITH CONCENTRATED ACIDS MAY RESULT IN RAPID TEMPERATURE INCREASE.

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

Spill Release Procedures:SEE CONTROL MEASURES FOR PROTECTIVE EQUIPMENT. ABSORB WITH SORBENT MATERIAL. PLACE IN DOT-APPROVED WASTE CONTAINER.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:STORE IN COOL, DRY, WELL-VENTILATED PLACE AWAY FROM OTHER CHEMICALS. KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE.

Other Precautions:THOROUGHLY WASH ANY AREAS OF SKIN WHICH CONTACT PRODUCT.

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

Respiratory Protection:DEPENDENT UPON VAPOR OR MIST LEVELS; NIOSH APPROVED RESPIRATOR WITH ORGANIC VAPOR/MIST CARTRIDGE OR POSTIVIE SELF-CONTAINED BREATHING APPARATUS.

Ventilation:LOCAL EXHAUST:REQUIRED.

Protective Gloves:CHEMICAL RESISTANT GLOVES.

Eye Protection:ANSI APPROVED CHEM WORKERS GOGGS .

Other Protective Equipment:ANSI APPROVED EMERGENCY EYE WASH AND DELUGE SHOWER . FULL PROTECTIVE CLOTHING.

Work Hygienic Practices:WASH HANDS PRIOR TO EATING. DO NOT STORE OR CONSUME FOOD IN WORK AREA.

Supplemental Safety and Health

EXPLAN OF CARCIN:ANIMAL:EYE, LIVER, SKIN, THYROID TUMORS.

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

Boiling Pt:B.P. Text:215F,102C

Vapor Pres:0.55 @ 20C

Vapor Density:2.62

Spec Gravity:1.43 (H\*20=1)

pH:2

Evaporation Rate & Reference:0.005 (BUTYL ACETATE=1)

Solubility in Water:100%

Appearance and Odor:CLEAR LIQUID.

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

Stability Indicator/Materials to Avoid:YES

ACIDS AND STRONG OXIDIZING AGENTS.

Stability Condition to Avoid:EXTREME HEAT, SPARKS AND OPEN FLAME.

Hazardous Decomposition Products:MAY LIBERATE CO, CO\*2, OXIDES OF

SULFUR.

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

Waste Disposal Methods:DISPOSE OF CONTAMINATED PRODUCT AND MATERIALS  
USED IN CLEANING UP SPILLS OR LEAKS IN A MANNER APPROVED FOR THIS  
MATERIAL. CONSULT FEDERAL, STATE AND LOCAL REGULATORY AGENCIES TO  
ASCERTAIN PROPER DISPOSAL PROCEDURES.

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