

GRACE W R & CO EMERSON & CUMING DEWEY & ALMY CHEM -- CATALYST 59 -- 8040-01-053-5602

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

Product ID:CATALYST 59

MSDS Date:10/30/1990

FSC:8040

NIIN:01-053-5602

MSDS Number: BNRSM

=== Responsible Party ===

Company Name:GRACE W R & CO EMERSON & CUMING DEWEY & ALMY CHEM

Address:869 WASHINGTON ST

City:CANTON

State:MA

ZIP:02021-2513

Country:US

Info Phone Num:617-938-8630

OR 617-828-3300

Emergency Phone Num:617-935-4850

CAGE:04552

=== Contractor Identification ===

Company Name:GRACE W R & CO EMERSON & CUMING DEWEY & ALMY CHEM

Address:869 WASHINGTON ST

City:CANTON

State:MA

ZIP:02021-2513

Country:US

Phone:617-935-4850

CAGE:04552

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

Ingred Name:(GAMMA-AMINOPROPYL) TRIETHOXYSILANE

CAS:919-30-2

RTECS #:TX2100000

Fraction by Wt: 100%

Other REC Limits:NONE SPECIFIED

=====  
Hazards Ident  
=====

ification =====

Routes of Entry: Inhalation:UNKNOWN Skin:YES Ingestion:YES

Health Hazards Acute and Chronic:CONTACT WITH EYES MAY RESULT IN PERMANENT DAMAGE OR BLINDNESS.

Effects of Overexposure:EYE CONTACT: VERY SEVERE IRRITATION UPON CONTACT. CAN CAUSE PERMANENT DAMAGE OR BLINDNESS. SKIN CONTACT: IRRITATION UPON DIRECT CONTACT. INGESTION: HARMFUL IF SWALLOWED

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

First Aid:EYE CONTACT: IMMEDIATELY

FLUSH EYES WITH WATER & CONTINUE

FLUSHING UNTIL MEDICAL ATTENTION OBTAINED. SKIN CONTACT: REMOVE CONTAMINATED CLOTHING. WASH AFFECTED AREA WITH WATER. INGESTION: DILUTE WITH LARGE QUANTITIES OF WATER. INDUCE VOMITING ONLY IF VICTIM CONSCIOUS & ALERT. GET IMMEDIATE MEDICAL ATTENTION. GET MEDICAL ATTENTION IF SYMPTOMS PERSIST.

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

Flash Point Method:PMCC

Flash Point:160F,71C

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

Fire Fighting Procedures:FIREFIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:TOXIC VAPORS MAY BE EVOLVED UPON EXPOSURE TO HEAT OR OPEN FLAMES.

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

Spill Release Procedures:WIPE UP, ABSORB W/VERMICULITE/OTHER ABSORBENT. COLLECT IN SEALED CONTAINERS. SCRUB AREA W/SOAPY WATER. RINSE. PREVENT FROM ENTERING DRAINS/WATERWAYS. DIKE TO CONTAIN MATERIAL.

SHOVEL/PUMP TO DRUM/SALVAGE TANK. SCRAPE UP, SHOVEL ABSORB WASTE TO CONTAINER.

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

Handling and Storage Precautions:STORE IN COOL, DRY PLACE. KEEP REMOVED FROM ANY HEAT OR OPEN FLAME. KEEP MATERIAL BLANKETED UNDER NITROGEN TO PREVENT REACTION WITH AIR OR MOISTURE.

Other Precautions:FLAMMABILITY/EXPLOSION PRECAUTIONS: KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME.

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

=====

Ventilation:USE WITH GOOD LOCAL VENTILATION.  
Protective Gloves:USE PROTECTIVE GLOVES.  
Eye Protection:EYE GOGGLES W/SIDE SHIELDS MUST BE WORN.  
Other Protective Equipment:PROTECTIVE CLOTHING.  
Supplemental Safety and Health

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

HCC:V4  
Boiling Pt:B.P. Text:425F,218C  
Vapor Pres: AIR  
Spec Gravity:0.95  
Solubility in Water:HYDROLYZES  
Appearance and Odor:CLEAR LIQUID.

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

Stability Indicator/Materials to Avoid:YES  
STRONG OXIDIZERS, STRONG BASES, HYDROLYSIS IN WATER MAY BE RAPID AND EXOTHERMIC.  
Stability Condition to Avoid:STORAGE IN OPEN CONTAINERS, EXPOSURE TO HEAT/OPEN FLAME, UNCONTROLLED MIXING WITH/EXPOSURE TO INCOMPATIBLE SUBSTANCES.  
Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE. OXIDES OF NITROGEN, SILICON DIOXIDE.

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

Waste Disposal Methods:S  
PILLED MATERIAL & WATER RINSES ARE CLASSIFIED AS CHEMICAL WASTE, & MUST BE DISPOSED OF IN ACCORDANCE WITH CURRENT FEDERAL, STATE AND LOCAL REGULATIONS.

Disclaimer (provided with this information by the compiling agencies):  
This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing t

his  
document should seek competent professional advice to verify and  
assume responsibility for the suitability of this information to their  
particular situation.