

W R GRACE & CO. DAVISON CHEMICAL DIVISION -- DAVISON BLUE INDICATING GEL, GRADES,
13,42,43,44,45 -- 6850-00-680-2233

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

Product ID: DAVISON BLUE INDICATING GEL, GRADES, 13,42,43,44,45

MSDS Date: 06/20/1996

FSC: 6850

NIIN: 00-680-2233

MSDS Number: CDFZL

=== Responsible Party ===

Company Name: W R GRACE & CO. DAVISON CHEMICAL DIVISION

Address: 10 E BALTIMORE STREET

Box: 2117

City: BALTIMORE

State: MD

ZIP: 21202-1630

Country: US

Info Phone Num: 410-659-9000

Emergency Phone Num: 301-874-2009/410-659-9058

CAGE: 16210

=== Contractor Identification ===

Company Name: DYNAMATION RESEARCH INC

Address: 2301 PONTIUS AVE

Box: City: LOS ANGELES

State: CA

ZIP: 90064

Country: US

Phone: 310-477-1224

CAGE: 0AMA0

Company Name: W R GRACE & CO. DAVISON CHEMICAL DIVISION

Address: 10 E BALTIMORE STREET

Box: 2117

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Composition/Information on Ingredients =====

Ingred Name:SILICA GEL
CAS:63231-67-4
RTECS #:VV7322000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:80 MG/M3 / % SIO2
ACGIH TLV:10 MG/M3

Ingred Name:COBALT CHLORIDE
CAS:7646-79-9
RTECS #:GF9800000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:0.05 MG C0/M3
ACGIH TLV:0.05 MG C0/M3

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

LD50 LC50 Mixture:48HR ORAL LD50(RAT) EST >31600MG/KG.
Routes of Entry: Inhalation:YES Skin:N
O Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO
Health Hazards Acute and Chronic:SILICA GEL(SYNTH AMORPHOURS SILICA)NOT
TO BE CONFUSED W/CRYSTALLINE SILICA.LOW POT FOR ADVERSE HEALTH
EFFECTS.IN ACTIVATED FORM SILICA GEL ACTS AS DESICCANT,CAUSE DRYING
IRRIT OF MUC MEMB/SKIN IN SEVE RE EXPO CASES.COBALT CHLORIDE CAN
CAUSEDERM,IRRIT OF NASAL PASSAGES/LUNGS.
Explanation of Carcinogenicity:PER MSDS:COBALT & COBALT CMPDS INCLUDED
ON IARC HUMAN CARCINOGENS LIS
T.
Effects of Overexposure:LOW POTENTIAL FOR ADVERSE HEALTH EFFECGTS.
DRYING IRRIT O FMUCOUS MEMBRANE & SKIN. DERMATITIS, IRRIT OF NASAL
PASSAGES & LUNGS.
Medical Cond Aggravated by Exposure:DAVISON KNOWS OF NO MEDICAL
CONDITIONS ABSNORMALLY AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

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

First Aid:EYE:IMMED WASH W/LG AMTS OF WATER OCCASIONALLY LIFTING
UPPER/LOWER EYELIDS.IRRIT OCCURS/PERSIST SEEK MED ATTN.SKIN:WASH

W/SOAP/WATER.INGEST:MATL WILL PASS THROUGH THE BODY
NORMALLY.INHAL:REMOVE TO FRE SH AIR.

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Fire Fighting Measures
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Flash Point:NON-FLAMMABLE
Autoignition Temp:Autoignition Temp Text:NP
Lower Limits:NP
Upper Limits:NP
Extinguishing Media:NONE SPECIFIED BY MANUFACTURER. HMIS:USE
APPROPRIATE FIRE EXTINGUISHING MEDIA FOR SURROUNDING FIRE/MATLS.
Fire Fighting Procedures:NONE SPECIFIED BY MANUFACTURER. HMIS:USE
APPROPRIATE PROTECTIVE CLOTHING
AS CONDITIONS WARRANT.
Unusual Fire/Explosion Hazard:NON-FLAMMABLE.

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Accidental Release Measures
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Spill Release Procedures:SWEEP OR VACUUM UP.
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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Handling and Storage
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Handling and Storage Precautions:AVOID PROL BREATH OF DUST/CONTACT OF
DUST W/SKIN.DRYING ACTION OF MATL CAN CAUSE IRRIT OF MUC MEMB OF
NOSE/THROAT/IRRIT SKIN.NOT FOOD GRADE PRODUCT.

Other
Precautions:FOR MANUAL HNDLG WEAR LONG SLEEVES/CLOSE-WEAVE COTTON
GLVOES W/TIGHT-FIT WRISTLETS.DUSTY CONDITONS PREVAIL WEAR PROPERLY
FITTED NIOSH-APPROV DUST RESP.DUST CAUSE EYE DISCOMT WEAR GOGG.WHEN
POUR INTO C NTNR OF FLAMM LIQ GROUND BOTH CNTNR(SUP)

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Exposure Controls/Personal Protection
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Respiratory Protection:NONE SPECIFIED BY MANUFACTURER.
Ventilation:NONE SPECIFIED BY MANUFACTURER.
Protective Gloves:NONE SPECIFIED BY MANUFACTURER.
Eye Protection
:NONE SPECIFIED BY MANUFACTURER.
Other Protective Equipment:NONE SPECIFIED BY MANUFACTURER.
Work Hygienic Practices:HMIS:AVOID GENERATING DUST.
Supplemental Safety and Health
PH IN 5% SLURRY:6.5-7.5. OTHER PRECAUT:KEEP TIGHTLY SEALED TO PROTECT
QUALITY.

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Physical/Chemical Properties
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HCC:N1
Boiling Pt:B.P. Text:NP
Melt/Freeze Pt:M.P/F.P Text:NP
Decomp Temp:Decomp Text:NP
Vapor Pres:NP
Vapor Density:NP
Spec Gravity:2.1
pH:SUPPLE
Viscosity:NP
Evaporation

Rate & Reference:NP
Solubility in Water:SEE DISPO SECTION.
Appearance and Odor:CLEAR BLUE GRANULES, NO ODOR.
Percent Volatiles by Volume:NP
Corrosion Rate:NP

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

Stability Indicator/Materials to Avoid:YES
REACTS WITH HF.
Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.
Hazardous Decomposition Products:NONE SPECIFIED BY MANUFACTURER.

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

Waste Disposal Methods:NOT KNOWN TO HAVE ANY ADVERSE AQUA ENVIRONMENTAL EFFECT.SILICA BASE-INSOLUBLE,NONTOXIC;COBALT CHLORIDE MAY LEACH AWAY IF CONTACTED W/WATER.DISPO IN APPROVED LANDFILL ACCORDING TO FED/STATE/LOC REGS.COVER PROMPTLY TO AVOID BLOWING OF DUST.

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