

U S Chemical & Plastics, Inc
 Alco Industries Companies
 600 Nova Drive SE
 Massillon, OH 44646
 PH 330-830-6000 - FAX 330-830-6005

For Chemical Emergency

CHEMTREC: 1-800-424-9300
 CANUTEC: 1-613-996-6666
 (For Canada call collect)

SECTION I - IDENTIFICATION OF PRODUCT

PRODUCT NAME: DURAGLAS
PRODUCT CODE: (24059), 24030, 24035, 24036
SYNONYM/CROSS REFERENCE: Polyester Paste Filler
SCHEDULE B NUMBER: 3214.10.0000-4

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENTS	WGT%	CAS #	TLV/PEL
Styrene	15-20%	100-42-5	ACGIH TLV 50 ppm STEL 100 ppm OSHA PEL 100 ppm CPEL 200 ppm (See Health Hazard Info)
Non-Fibrous Talc	40-50%	14807-96-6	ACGIH TWA 2 mg/m ³ OSHA TLV 20 mppcf
Castor Oil Derivative	1-5 %	8001-78-3	OSHA PEL 15 mg/m ³
Fiberglass (Milled)	0-5 %	65997-17-3	ACGIH PEL 15 mg/m ³
Calcium Metasilicate	5-15%	13983-17-0	ACGIH PEL 15 mg/m ³
Calcium Carbonate	5-15%	1317-65-3 471-34-1	ACGIH TWA 10 mg/m ³

SECTION III - PHYSICAL DATA

APPEARANCE: Green Paste, fibrous texture
SPECIFIC GRAVITY: 1.65
VAPOR PRESSURE (mmHG): N/Av
BOILING POINT: N/Av
VAPOR DENSITY: Heavier than air
EVAPORATION RATE (Ethyl Ether = 1): Slower than Ethyl Ether
VOLATILES BY WEIGHT: 13-20%
SOLUBILITY IN WATER: Not Soluble
VOC: Grams/Litre = less exempts 242
 loss upon curing approx 2.0 g/l

CATALYST SYSTEMS

U S Chemical & Plastics , Inc
Alco Industries Companies
PO Box 88
2290 Zimmerman Rd SE
Gnadenhutten, OH 44629
PH: 740-254-4311

CHEMTREC: 1-800-424-9300
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SECTION I - IDENTIFICATION OF PRODUCT
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PRODUCT NAME: CREAM HARDENER (TUBED)
PRODUCT CODE: 27640/White, 27641/Red, 27642/Green, 27643/Blue,
27645/Raspberry, 28050/Black
additional product codes on page 4
SYNONYM/CROSS REFERENCE: Polyester Cream Hardener/Polyester Catalyst,
Benzoyl Peroxide Paste
SCHEDULE B NUMBER: 3815.90.0000-0

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SECTION II - HAZARDOUS INGREDIENTS
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INGREDIENTS	WGT%	CAS #	TLV/PEL
Benzoyl Peroxide	47.5-50.0	94-36-0	Combustible when dry: TLV 5 mg/m3 *

* Refer to 29 CFR 1910.1000, subpart Z.
Also see TLV for Chemical Substances and Physical Agents in the Work Environment (ACGIH)

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SECTION III - PHYSICAL DATA
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APPEARANCE: Red, White, Blue, Green or Raspberry Paste
SPECIFIC GRAVITY: 1.20
VAPOR PRESSURE (mmHG): N/E
BOILING POINT: Decomposes
VAPOR DENSITY: (Air = 1) >
EVAPORATION RATE (Ethyl Ether = 1): <1
VOLATILES BY WEIGHT: 10-20%
SOLUBILITY IN WATER: Insoluble
VOC: Grams/Litre = Nil
Lbs/Gallon = Nil

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SECTION IV - FIRE AND EXPLOSION DATA
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FLASH POINT: 184 F/ 84 C Seta Flash Closed cup
LOWER FLAMMABLE LIMIT %: N/E
UPPER FLAMMABLE LIMIT %: N/E
FIRE EXTINGUISHING MEDIA: Carbon Dioxide, Dry Chemical, Foam
SPECIAL FIRE FIGHTING PROCEDURES: Fight like a fuel oil fire. Cool fire exposed containers with water spray. Firefighter should wear OSHA/NIOSH approved self-contained breathing apparatus.
UNUSUAL FIRE AND EXPLOSION HAZARD: Closed containers exposed to high temperatures, such as fire conditions may rupture.

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SECTION V - HEALTH HAZARD/TOXICOLOGICAL PROPERTIES
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OVEREXPOSURE EFFECTS:

ACUTE EFFECTS:

EYES: Contact with eyes can cause irritation, redness, tearing, blurred vision, and/or swelling.

SKIN: Contact with skin can cause irritation, (minor itching, burning and/or redness), Dermatitis, defatting may be readily absorbed thru the skin.

INHALATION: Inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness and/or asphyxiation. Aspiration of material into lungs may result in chemical pneumonitis which can be fatal.

INGESTION: Ingestion can cause gastrointestinal irritation, nausea, vomiting, diarrhea.

CHRONIC EFFECTS:

Overexposure to this material has apparently been known to cause the following effects in lab animals: skin damage and appendages.

CARCINOGEN: YES _____ NO X

TERATOGEN: YES _____ NO X

MUTAGEN: YES _____ NO X

Benzoyl Peroxide has caused tumorigenic effects in laboratory animals.

PRIMARY ROUTES OF EXPOSURE: skin, inhalation

FIRST AID:

INHALATION: If inhaled, remove victim from exposure to a well-ventilated area. Make them comfortably warm, but not hot. Use oxygen or artificial respiration as required. Consult a physician.

SKIN: For skin contact, wash promptly with soap and excess water.

EYES: For eye contact, flush promptly with excess water for at least fifteen minutes. Consult a physician.

INGESTION: If ingested, do not induce vomiting. Give victim a glass of water. Call a physician immediately.

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SECTION V I - REACTIVITY DATA
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STABILITY: Stable

CONDITIONS TO AVOID: Open flames, sparks, heat, electrical and static discharge.

INCOMPATIBILITY MATERIALS TO AVOID: Strong acids, alkalis, oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Dioxide, Carbon Monoxide and Carbon.

HAZARDOUS POLYMERIZATION: Will not occur.

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SECTION VII - SPILL AND DISPOSAL PROCEDURE
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SPILLS, LEAK OR RELEASE: Ventilate area. Remove all possible sources of ignition. Avoid prolonged breathing of vapor. Contain spill with inert absorbent.

WASTE DISPOSAL: Dispose of in accordance with local, state, and federal regulations.

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SECTION VIII - PROTECTION INFORMATION

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RESPIRATORY PROTECTION: If component TLV limits are exceeded, use NIOSH/MSHA approved respirator to remove vapors. Use an air-supplied respirator if necessary.

VENTILATION: Use adequate ventilation in volume and pattern to keep TLV/PEL below recommended levels. Explosion-proof ventilation may be necessary.

PROTECTIVE GLOVES: To prevent prolonged exposure use rubber gloves; solvents may be absorbed through the skin

EYE PROTECTION: Safety Glasses or goggles with splash guards or side shields.

OTHER PROTECTIVE EQUIPMENT: Wear protective clothing as required to prevent skin contact.

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SECTION IX - HANDLING AND STORAGE PRECAUTIONS

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STORAGE AND HANDLING: Use with adequate ventilation. Avoid contact with eyes and skin. Avoid breathing vapors. Do not store the product above 100F/38C. Do not flame, cut, braze weld or melt empty containers. Keep the product away from heat, open flame, and other sources of ignition. Avoid contact with strong acids, alkalis and oxidizers.

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SECTION X - ADDITIONAL INFORMATION

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SHIPPING INFORMATION: Please comply with DOT regulations in USA

HMIS RATING:	Health	2	4 = Extreme
	Fire	2	3 = High
	Reactivity	2	2 = Moderate
			1 = Slight
			0 = Insignificant

Personal Protection - See Section VIII

CALIFORNIA PROPOSITION 65:

Trace amounts of some chemicals known to the State of California to cause cancer, birth defects or other reproductive harm may be present in this product.

SECTION 313 SUPPLIER NOTIFICATION:

This product contains the following toxic chemicals subject to the reporting requirements of the Emergency Planning and Community Right-To-Know Act of 1986 and 40 CFR 372:

CHEMICAL NAME	CAS	% BY WGT
Benzoyl Peroxide	94-36-0	47.5-50.0%

THIS INFORMATION MUST BE INCLUDED IN ALL MSDS's THAT ARE COPIED AND DISTRIBUTED FOR THIS CHEMICAL

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ABBREVIATIONS

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IARC = International Agency for Research on Cancer
ACGIH = American Conference of Governmental Industrial Hygienists
NIOSH = National Institute of Occupational Safety and Health
TLV = Threshold Limit Value
PEL = Permissible Emission Level
DOT = Department of Transportation
NTP = National Toxicology Program
N/AV = Not Available
N/AP = Not Applicable
N/E = Not Established
N/D = Not Determined

NOTE: ADDITIONAL PART NUMBERS:

Bulk Red	27641 27007, 27020, 27170, 27010, 27110, 27020, 27120
Bulk Blue	27643 27012, 27022, 27112, 27160, 27122, 28159
Bulk White	27647 27014, 27114, 27024, 27124, 27080
Bulk Raspberry	27645 27029, 27030, 27032, 27034, 27196, 27633
Bulk Black	28050 27042

PREPARED BY: CATALYST SYSTEMS, INC
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Alco Industries Companies
PO Box 88
2290 Zimmerman Rd SE
Gnadenhutten, OH 44629

TELEPHONE NBR 740-254-4311
FAX NBR 740-254-9400

PREPARED ON September 18, 2002
SUPERSEDES July 16, 2002
REASON FOR UPDATE Format

The information in the Material Safety Data Sheet has been compiled from our experience and from data presented in various technical publications. It is the user's responsibility to determine the suitability of this information for the adoption of the safety precautions as may be necessary. We reserve the right to revise Material Safety Data Sheets from time to time as new technical information becomes available. The user has the responsibility to contact the Company to make sure that the MSDS is the latest one issued.

SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT: 89 F/ 31.7 C Seta Flash Closed cup

LOWER FLAMMABLE LIMIT %: N/E

UPPER FLAMMABLE LIMIT %: N/E

FIRE EXTINGUISHING MEDIA: Carbon Dioxide, Dry Chemical, Foam

SPECIAL FIRE FIGHTING PROCEDURES: Fight like a fuel oil fire. Cool fire exposed containers with water spray. Firefighter should wear OSHA/NIOSH approved self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARD: Closed containers exposed to high temperatures, such as fire conditions may rupture.

SECTION V - HEALTH HAZARD/TOXICOLOGICAL PROPERTIES

OVEREXPOSURE EFFECTS:

ACUTE EFFECTS:

EYES: Contact with eyes can cause irritation, redness, tearing, blurred vision, and/or swelling.

SKIN: Contact with skin can cause irritation, (minor itching, burning and/or redness), Dermatitis, defatting may be readily absorbed thru the skin.

INHALATION: Inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness and/or asphyxiation. Aspiration of material into lungs may result in chemical pneumonitis which can be fatal.

INGESTION: Ingestion can cause gastrointestinal irritation, nausea, vomiting, diarrhea.

CHRONIC EFFECTS:

Overexposure to this material has apparently been known to cause the following effects in lab animals: eye, skin, lung, and central nervous system damage.

CARCINOGEN: YES NO

TERATOGEN: YES NO

MUTAGEN: YES NO

STYRENE CARCINOGENICITY

Styrene is listed by IARC to be a possible carcinogen. Styrene studies have shown that Styrene causes cancer in certain laboratory animals. However, there is insufficient evidence to conclude that Styrene is a human carcinogen.

PRIMARY ROUTES OF EXPOSURE: skin, inhalation, eyes

FIRST AID:

INHALATION: If inhaled, remove victim from exposure to a well-ventilated area. Make them comfortably warm, but not hot. Use oxygen or artificial respiration as required. Consult a physician.

SKIN: For skin contact, wash promptly with soap and excess water.

EYES: For eye contact, flush promptly with excess water for at least fifteen minutes. Consult a physician.

INGESTION: If ingested, do not induce vomiting. Give victim a glass of water. Call a physician immediately.

SECTION VI - REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: Open flames, sparks, heat, electrical and static discharge.

INCOMPATIBILITY MATERIALS TO AVOID: Strong acids, alkalis, oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Dioxide, Carbon Monoxide and Carbon.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION VII - SPILL AND DISPOSAL PROCEDURE

SPILLS, LEAK OR RELEASE: Ventilate area. Remove all possible sources of ignition. Avoid prolonged breathing of vapor. Contain spill with inert absorbent.

WASTE DISPOSAL: Dispose of in accordance with local, state, and federal regulations.

MARINE POLLUTANT: Contains ten percent or more of a marine pollutant

SECTION VIII - PROTECTION INFORMATION

RESPIRATORY PROTECTION: If component TLV limits are exceeded, use NIOSH/MSHA approved respirator to remove vapors. Use an air-supplied respirator if necessary.

VENTILATION: Use adequate ventilation in volume and pattern to keep TLV/PEL below recommended levels. Explosion-proof ventilation may be necessary.

PROTECTIVE GLOVES: To prevent prolonged exposure use rubber gloves; solvents may be absorbed through the skin

EYE PROTECTION: Safety Glasses or goggles with splash guards or side shields.

OTHER PROTECTIVE EQUIPMENT: Wear protective clothing as required to prevent skin contact.

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SECTION X - ADDITIONAL INFORMATION

SHIPPING INFORMATION: Please comply with DOT regulations in USA

HMS RATING:

Health	2	4 = Extreme
Fire	3	3 = High
Reactivity	1	2 = Moderate
		1 = Slight
		0 = Insignificant

Personal Protection - See Section VIII

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<u>CHEMICAL NAME</u>	<u>CAS</u>	<u>% BY WGT</u>
Styrene	100-42-5	15-20%

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ABBREVIATIONS

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NIOSH = National Institute of Occupational Safety and Health
TLV = Threshold Limit Value
PEL = Permissible Emission Level
DOT = Department of Transportation
NTP = National Toxicology Program
N/AV = Not Available
N/AP = Not Applicable
N/E = Not Established
N/D = Not Determined

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PREPARED ON September 21, 2001
SUPERSEDES January 23, 2001

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