

MATERIAL SAFETY DATA SHEET

BASF CORPORATION CHEMICALS DIVISION

BASF

100 Cherry Hill Road
Parsippany, New Jersey, 07054
201/262-3400

PRODUCT NUMBER: 001770 241-7 Antifreeze Formulation

SECTION I Registered Trademark	
TRADE NAME 241-7 Antifreeze Formulation	
CHEMICAL NAME Ethylene Glycol--Inhibited	
SYNONYMS: Permanent Antifreeze	FORMULA: Mixture
CHEMICAL FAMILY: Glycols	MOL. WGT.: N/A

SECTION II - INGREDIENTS			
COMPONENT	CAS NO.	%	PEL/TLV - SOURCE
241-7 Antifreeze Formulation		100	Not established
Contains:			
Ethylene Glycol	107-21-1	95	50 ppm Ceiling ACGIH, 1985
Silicates	10312-78-3	<0.5	Not established
Phosphates	7801-54-8	<0.5	Not established
Borates	1303-36-4	<1.0	Not established
Nitrates	7821-88-4	<0.5	Not established
Water		2.0	

SECTION III - PHYSICAL DATA	
BOILING/MELTING POINT @760 mm Hg: 330 F/N/A	pH: 10.0-11.0
VAPOR PRESSURE mm Hg @20 C: 15	
SPECIFIC GRAVITY OR BULK DENSITY: 1.123	
SOLUBILITY IN WATER: Complete	
APPEARANCE: Clear, Dyed Liquid	ODOR: Glycol
	INTENSITY: Slight

SECTION IV - FIRE AND EXPLOSION HAZARD DATA	
FLASH POINT (TEST METHOD): 202 F C.C.C.	AUTOIGNITION TEMP: 775 F
FLAMMABILITY LIMITS IN AIR (% BY VOL)	LOWER: N/A
	UPPER: N/A
EXTINGUISHING MEDIUM	Use water fog, alcohol foam, CO2 or dry chemical extinguishing media. NFPA: 1/1/0
SPECIAL FIREFIGHTING PROCEDURES	Firefighters should be equipped with self-contained breathing apparatus and turnout gear. Avoid breathing vapors of heated or burning antifreeze.
UNUSUAL FIRE AND EXPLOSION HAZARDS	Vapors from heated (above flash point) product may travel to a source of ignition and flash back.

EMERGENCY TELEPHONE NUMBER	
CHEMTREC 800-424-9300	201-262-3400
THIS NUMBER IS AVAILABLE DAYS, NIGHTS, WEEKENDS, AND HOLIDAYS	

SECTION V - HEALTH DATA**TOXICOLOGICAL TEST DATA:**

241-7 Antifreeze Formulation
Ethylene Glycol
Ret. Oral LD50
Human, Reported Lethal Dose
Silicates
Borates

RESULT:

8.8 g/kg.
100 g.o.
Eye and skin irritant
Moderately toxic by
ingestion

EFFECTS OF OVEREXPOSURE:

Prolonged breathing of vapors or mists can cause unconsciousness.
Involuntary movement of eyeballs and increased lymphocyte counts.
Swallowing will cause acute poisoning resulting in severe abdominal
disturbances, CNS depression, possible respiratory and/or renal failure.
Eye contact with the liquid will result in temporary irritation.
Eye contact with the vapors may result in irritation.
Prolonged skin contact with the liquid has a dehydrating effect resulting
in a temporary irritation.
Vapors have little or no effect on the skin.
Animal studies indicate that ethylene glycol may be embryotoxic and
teratogenic by the oral and inhalation routes.

FIRST AID PROCEDURES:

Eyes--Flush eyes with flowing water at least 15 minutes.
Get medical attention.
Skin--Wash affected skin areas with soap and water.
If irritation develops, consult a physician.
Ingestion--If swallowed, induce vomiting.
Never give fluids or induce vomiting if the victim
is unconscious or having convulsions.
Get immediate medical attention.
Inhalation--If inhaled, move to fresh air.
Aid in breathing, if necessary, and get medical attention.

SECTION VI - REACTIVITY DATA**STABILITY:**

Stable.

CONDITIONS TO AVOID:

N/A

CHEMICAL INCOMPATIBILITY:

N/A.

HAZARDOUS DECOMPOSITION PRODUCTS:

N/A

HAZARDOUS POLYMERIZATION:

Does not occur

CONDITIONS TO AVOID:

N/A

CORROSIVE TO METAL:

No

OXIDIZER:

No

SECTION VII - SPECIAL PROTECTION**RESPIRATORY PROTECTION:**

Avoid breathing vapors of heated product. Do not enter tanks without
breathing equipment. If the TLV is exceeded, use an approved organic
vapor respirator.

EYE PROTECTION:

Shield.

If splashing can occur, use chemical goggles or full face

PROTECTIVE CLOTHING:

Use rubber gloves, apron and shoes.
Remove contaminated clothing immediately and wash before reuse.

VENTILATION:

Local exhaust recommended near heated product.

OTHER:

N/A

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SECTION VIII - ENVIRONMENTAL DATA		
ENVIRONMENTAL TOXICITY DATA: Aquatic toxicity rating: TL008 1000-100 ppm.		
SPILL AND LEAK PROCEDURES: 241-7 Antifreeze Formulation is not a regulated product. Clean up quickly, as spills constitute a slipping hazard. Wash away small amounts with cool water. Absorb large amounts on absorbent material or dike and pump into drums.		
HAZARDOUS SUBSTANCE SUPERFUND: No RQ (lbs):		
WASTE DISPOSAL METHOD: Properly incinerate or bury in EPA-approved landfill. Consult your local EPA office. Prevent run-off to public waterways or public land. Disposal may be handled by any licensed disposal company.		
HAZARDOUS WASTE 40CFR261: No HAZARDOUS WASTE NUMBER:		
CONTAINER DISPOSAL: Empty drums may be handled in a normal manner. It is recommended that product labels be preserved on drums until they are cleaned or renovated.		
SECTION IX - SHIPPING DATA		
D.O.T. PROPER SHIPPING NAME (49CFR172.101-102) None	HAZARDOUS SUBSTANCE (49CFR CERCLA LIST) No REPORTABLE QUANTITY (RQ) None	
D.O.T. HAZARD CLASSIFICATION (CFR172.101-102) PRIMARY None		SECONDARY N/A
D.O.T. LABELS REQUIRED (49CFR172.101-102) None	D.O.T. PLACARDS REQUIRED (CFR172.604) None	POISON CONSTITUENT (49CFR172.203(K)) N/A
BILL OF LADING DESCRIPTION Antifreeze Preparations, Proprietary (Ethylene Glycol Base)		
CC NO. 222		UN/NA CODE None
DATE PREPARED: 3 / 5 / 88		UPDATED: 3 / 5 / 88

WHILE BASF CORPORATION BELIEVES THE DATA SET FORTH HEREIN ARE ACCURATE AS OF THE DATE HEREOF, BASF CORPORATION MAKES NO WARRANTY WITH RESPECT THERETO AND EXPRESSLY DISCLAIMS ALL LIABILITY FOR RELIANCE THEREON. SUCH DATA ARE OFFERED SOLELY FOR YOUR CONSIDERATION, INVESTIGATION, AND VERIFICATION.

SECTION X - PRODUCT LABEL**241-7 Antifreeze Formulation****WARNINGS:**

CONTACT WITH EYES WILL RESULT IN TEMPORARY IRRITATION.
PROLONGED CONTACT WITH SKIN WILL RESULT IN TEMPORARY IRRITATION.
INHALATION OF VAPORS OR MISTS CAN CAUSE UNCONSCIOUSNESS, INVOLUNTARY MOVEMENT OF EYEBALLS AND INCREASED LYMPHOCYTE COUNTS.
INGESTION WILL CAUSE ACUTE POISONING RESULTING IN SEVERE ABDOMINAL DISTURBANCES, G.I. DEPRESSION, POSSIBLE RESPIRATORY AND/OR RENAL FAILURE.
ETHYLENE GLYCOL WAS TERATOGENIC IN LABORATORY ANIMAL STUDIES.

FIRST AID:

- Eyes** - Immediately wash eyes with running water for 15 minutes.
If irritation develops, get medical attention.
- Skin** - Wash affected areas with soap and water.
Remove contaminated clothing and launder before reuse.
If irritation develops, get medical attention.
- Ingestion** - If swallowed, dilute with water and immediately induce vomiting.
Never give fluids or induce vomiting if the victim is unconscious or having convulsions.
Get immediate medical attention.
- Inhalation** - Move to fresh air. Aid in breathing, if necessary and get medical attention.

HANDLING AND STORAGE: Keep containers closed. In case of spill, clean up quickly as product is slippery. Wash away small amounts with cool water. Absorb large amounts with absorbent material or dike and pump into drums for proper disposal. Incinerate or bury in an approved landfill under guidance of local EPA. Prevent run-off onto public land or into waterways.

IN CASE OF FIRE: Use water fog, alcohol foam, CO₂ or dry chemical extinguishing media. Firefighters should be equipped with self-contained breathing apparatus and turnout gear. Vapors from heated product can travel to source of ignition and flash back. Moderate explosion hazard when exposed to flame.

EMPTY CONTAINERS: All labeled precautions must be observed when handling, storing and transporting empty containers due to product residues. Do not reuse this container unless it is professionally cleaned and reconditioned.

DISPOSAL: Spill material, unused contents and empty containers must be disposed of in accordance with local, state and federal regulations. Refer to our Material Safety Data Sheet for specific disposal instructions.

IN CASE OF CHEMICAL EMERGENCY: Call CHEMTREC day or night for assistance and information concerning spilled material, fire, exposure and other chemical accidents. 800-424-9300.

ATTENTION: This product is sold solely for use by industrial institutions.

Refer to our Technical Bulletin and Material Safety Data Sheet regarding safety, usage, applications, hazards, procedures and disposal of this product. Consult your supervisor for additional information.

CAS No.: 107-81-1; 10219-78-3; 7801-84-8; 1303-88-4; 7831-88-4
Made in U.S.A.
Industrial and Performance Chemical Group
0185