

Material Safety Data Sheet

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SECTION I - Material Identity

Item Name	
Part Number/Trade Name	SURE ANTIFREEZE-CODE 28251
National Stock Number	6850006641403
CAGE Code	0A1G5
Part Number Indicator	A
MSDS Number	180819
HAZ Code	B

SECTION II - Manufacturer's Information

Manufacturer Name	PITT PENN OIL CO
P.O. Box	296
Street	FREEPORT ROAD
City	CREIGHTON
State	PA
Country	US
Zip Code	15030
Emergency Phone	800-255-3924
Information Phone	724-226-2712

MSDS Preparer's Information

Date MSDS Prepared/Revised	01SEP96
Active Indicator	Y

Alternate Vendors

Vendor #1 CAGE	0A1G5
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SECTION III - Physical/Chemical Characteristics

Appearance/Odor	GREEN;MILD GLYCOL
Boiling Point	320F
Vapor Pressure	18 MMHG
Vapor Density	2.14
Specific Gravity	1.127
Evaporation Rate	N/K
Solubility in Water	SOLUBLE
Container Type	N
Container Pressure Code	4
Temperature Code	8
Product State Code	U

SECTION IV - Fire and Explosion Hazard Data

Flash Point Method	COC
Lower Explosion Limit	3.2
Upper Explosion Limit	15.3
Extinguishing Media	WATER SPRAY, DRY CHEMICAL, FOAM, CO*2 (WATER OR FOAM MAY CAUSE FROTHING)
Special Fire Fighting Procedures	USE WATER TO COOL FIRE-EXPOSED CONTAINERS. IF LEAK OR SPILL HAS NOT IGNITED, USE WATER SPRAY TO DISPERSE THE VAPORS AND PROVIDE PROTECTION FOR PERSONS (CONTD)
Unusual Fire/Explosion Hazards	(CONTD) ATTEMPTING TO STOP THE LEAK

SECTION V - Reactivity Data

Stability	YES
Stability Conditions to Avoid	NO INFORMATION GIVEN FROM MANUFACTURER
Hazardous Decomposition Products	BY FIRE: CO AND CO*2 MAY BE FORMED ON BURNING IN LIMITED AIR SUPPLY

SECTION VI - Health Hazard Data

Route of Entry: Skin	YES
Route of Entry: Ingestion	YES
Route of Entry: Inhalation	YES
Health Hazards - Acute and Chronic	EYE: SLIGHT IRRITATION SKIN: SLIGHTLY IRRITATING W/PROLONGED CONTACT INHALE: DROWSINESS, NARCOSIS, UNCONSCIOUSNESS POSSIBLE UPON EXPOSURE TO HIGH CONCENTRATIONS IN PORRLY VENTILATED AREAS CONFINED SPACES. CHRONIC: IN LAB ANIMALS IN 2 YEARS THERE WAS LIVER, KIDNEY DAMAGE AND BIRTH DEFECTS
Emergency/First Aid Procedures	EYE: FLUSH W/WATER FOR 15 MIN. SKIN: WASH EXPOSED AREA W/SOAP AND WATER. INGEST: GIVE LARGE QUANTITIES OF WATER, THEN INDUCE VOMITING IMMEDIATELY. IMMEDIATE MEDICAL ATTENTION. DO NOT MAKE UNCONSCIOUS PERSON VOMIT OR GIVE ANYTHING BY MOUTH. INHALE: REMOVE TO FRESH AIR; IF NOT BREATHING, APPLY ARTIFICIAL RESPIRATION. GET MEDICAL ATTENTION. KEEP AFFECTED PERSON WARM AND AT REST.

SECTION VII - Precautions for Safe Handling and Use

Steps if Material Released/Spilled	CONTAIN SPILL. WIPE UP/ABSORB ON SUITABLE MATERIAL AND SHOVEL UP
Waste Disposal Method	DISPOSE OF IN ACCORDANCE TO ALL FEDERAL, STATE, AND LOCAL LAW
Handling and Storage Precautions	PERIODS OF HIGH TEMP. SHOULD BE MINIMIZED. WATER CONTAMINATION SHOULD BE AVOIDED
Other Precautions	DO NOT STORE IN OPENED/UNLABELED CONTAINERS. EMPTY CONTAINERS CAN BE HAZARDOUS IF STORE TOXIC, FLAMMABLE/REACTIVE MATERIALS. DO NOT CUT, WELD/PRESSURIZE EMPTY CONTAINERS.DO NOT EXPOSE TO OPEN FLAME/HEAT.

SECTION VIII - Control Measures

Respiratory Protection	SUPPLIED AIR RESPIRATORY PROTECTION FOR CLEANING LARGE SPILLS, ENTRY INTO TANKS, VESSELS, OR OTHER CONFINED SPACES
Ventilation	NORMAL
Eye Protection	CEMICAL GOGGLES/FACE SHEILD
Work Hygenic Practices	CLEANSE EXPOSED AREAS SEVERAL TIMES DAILY W/SOAP AND WATER. LAUNDER SOILED CLOTHING AT LEAST WEEKLY
Supplemental Health/Safety Data	KEEP OUT OF REACH OF CHILDREN. HARMFUL/FATAL IF SWALLOWED
Disposal Code	O

SECTION IX - Label Data

Protect Eye	YES
Protect Skin	NO
Protect Respiratory	NO
Chronic Indicator	YES
Contact Code	SLIGHT
Fire Code	UNKNOWN
Health Code	UNKNOWN
React Code	UNKNOWN
Specific Hazard and Precaution	MAY BE FATAL IF SWALLOWED. MAY CAUSE IRRITATION TO EYES

SECTION X - Transportation Data

Container Quantity	1
Unit of Measure	GL

SECTION XI - Site Specific/Reporting Information

Volatile Organic Compounds (P/G)	9.3991
Volatile Organic Compounds (G/L)	1126.3772

SECTION XII - Ingredients/Identity Information

Ingredient #	01
Ingredient Name	1,2-ETHANEDIOL
CAS Number	107211
Proprietary	NO
Percent	96
ACGIH TLV	50 PPM

Ingredient #	02
Ingredient Name	TOTAL INHIBITOR PACKAGE
CAS Number	1003
Proprietary	NO
Percent	3
Ingredient #	03
Ingredient Name	WATER
CAS Number	7732185
Proprietary	NO
Percent	3
OSHA PEL	NR
ACGIH TLV	NR
Recommended Limit	NONE SPECIFIED
Ingredient #	04
Ingredient Name	SILICATES
CAS Number	6834920
Proprietary	NO
Percent	.05
Ingredient #	05
Ingredient Name	PHOSPHATES
CAS Number	7664382
Proprietary	NO
Percent	1.5
Ingredient #	06
Ingredient Name	BORATES
CAS Number	1303964
Proprietary	NO
Percent	.5
Ingredient #	07
Ingredient Name	NITRATE
CAS Number	14797558
Proprietary	NO
Percent	.5
Ingredient #	08
Ingredient Name	SODIUM HYDROXIDE
CAS Number	1310732
Proprietary	NO
Percent	.4
Ingredient #	09
Ingredient Name	SODIUM MERCAPTO-BENZOTHAZOLE
CAS Number	2492264
Proprietary	NO
Percent	.2
Ingredient #	10
Ingredient Name	SODIUM TOLY-TRIAZOLE
CAS Number	64665572
Proprietary	NO

Percent	.2
Ingredient #	11
Ingredient Name	POLYGLYCOL
CAS Number	9003116
Proprietary	NO
Percent	.03
Ingredient #	12
Ingredient Name	DYE
CAS Number	1003
Proprietary	NO
Percent	0.05
