

# MATERIAL SAFETY DATA SHEET

**PENNZOIL PRODUCTS COMPANY**

## I. PRODUCT IDENTIFICATION

Manufacturer's Name	PENNZOIL CO., GUNOUT DIVISION		CAS Number: MIXTURE
Address	710 GATEWAY CENTER #4 PITTSBURGH, PA 15222-1469		MSDS Code: 000951
Emergency Telephone No.	(713) 236-6070		<b>NFPA Hazard Identification</b> Degree of Hazard      Hazard Ratings  Health: 1              0 - Least Fire: 3                 1 - Slight Reactivity: 0         2 - Moderate 3 - High 4 - Extreme
Trade Name	JET SPRAY, GUNOUT® CARBURETOR AND CHOKE CLEANER		
Synonyms	STOCK #7460, STOCK #7440, STOCK #7460, JET SPRAY		

## II. INGREDIENTS

COMPONENT NAME	CAS NUMBER	HAZARDOUS IN BLEND	PERCENTAGE		COMPONENT EXPOSURE LIMIT		UNITS
			MIN	MAX			
XYLENE	1330-20-7	YES	55.00	70.00	OSHA PEL TWA	435.0000	MG/M3
ISOPROPYL ALCOHOL	67-63-0	YES	3.00	13.00	OSHA PEL STEL	1225.0000	MG/M3
METHYLENE CHLORIDE	78-93-3	YES	3.00	25.00	OSHA PEL TWA	980.0000	MG/M3
DIETHYLENE GLYCOL		YES			OSHA PEL TWA	590.0000	MG/M3
DIETHYLENE GLYCOL MONOMETHYL ETHER		YES			OSHA PEL STEL	885.0000	MG/M3
HYDROCARBON PROPELLANT MIXTURE		YES	3.00	25.00	OSHA PEL TWA		NO LIMIT

BY ENVIRONMENTAL SAFETY & HEALTH (713) 546-5227 EFFECTIVE DATE: OCTOBER 02, 1992

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**HEALTH EFFECT INFORMATION****EYE CONTACT**

AVOID EYE CONTACT. THIS PRODUCT CAN CAUSE CORNEAL BURNS, TWITCHING AND REDNESS. THESE EFFECTS ARE TRANSIENT, AND COMPLETE RECOVERY FOLLOWS.

**SKIN CONTACT**

AVOID SKIN CONTACT. THIS PRODUCT MAY CAUSE SKIN IRRITATION UPON DIRECT CONTACT. PROLONGED OR REPEATED CONTACT MAY RESULT IN CONTACT DERMATITIS WHICH IS CHARACTERIZED BY DRYNESS, CHAPPING, AND REDDENING. THIS CONDITION MAY MAKE THE SKIN MORE SUSCEPTIBLE TO OTHER IRRITANTS, SENSITIZERS, AND DISEASE. PRE-EXISTING SKIN CONDITIONS MAY MAKE THE SKIN MORE SUSCEPTIBLE AND FACILITATE UPTAKE BY THIS ROUTE.

**INHALATION**

AVOID PROLONGED INHALATION OF VAPORS. EXPOSURE TO VAPORS MAY BE IRRITATING TO THE THROAT AND LUNGS. WHEN HIGH CONCENTRATIONS ARE INHALED, HUMAN SIGNS MAY INCLUDE A REDDENING OF THE FACE AND A FEELING OF INCREASED BODY HEAT. IN ADDITION, DISTURBED VISION, DIZZINESS, TREMORS, SALIVATION, CARDIAC STRESS, DROWSINESS, DULLNESS, NUMBNESS, WEAKNESS, HEADACHE, NAUSEA, AND CONFUSION, AS WELL AS RESPIRATORY DIFFICULTIES MAY BE APPARENT. EXTREMELY HIGH CONCENTRATIONS HAVE ANAESTHETIC EFFECTS AND MAY LEAD TO DEATH. SIGNS AND SYMPTOMS FROM CHRONIC EXPOSURE RESEMBLE THOSE FROM ACUTE MISHAPS BUT ARE IN PART SYSTEMICALLY MORE SEVERE. SYMPTOMS RELATED TO THE NERVOUS SYSTEM, KIDNEYS, LIVER, BONE MARROW, HAVE BEEN REPORTED FOLLOWING LONG-TERM INHALATION EXPOSURE TO HIGH CONCENTRATIONS. SEE HEALTH DATA SECTION BELOW.

**INGESTION**

THERE ARE NO KNOWN ADVERSE EFFECTS BASED ON CURRENT REFERENCES. INGESTION OF SMALL QUANTITIES IS USUALLY NONFATAL UNLESS ASPIRATION OCCURS. ASPIRATION MAY LEAD TO CHEMICAL PNEUMONITIS WHICH IS CHARACTERIZED BY PULMONARY EDEMA AND HEMORRHAGE AND MAY BE FATAL. SIGNS OF LUNG INVOLVEMENT INCLUDE INCREASED RESPIRATORY RATE, INCREASED HEART RATE, AND A BLuish DISCOLORATION OF THE SKIN. COUGHING, CHOKING, AND GAGGING ARE OFTEN NOTED AT THE TIME OF ASPIRATION. GASTROINTESTINAL DISCOMFORT MAY DEVELOP, FOLLOWED BY VOMITTING WITH A FURTHER RISK OF ASPIRATION. INGESTION WILL CAUSE SEVERE GASTROINTESTINAL DISTRESS. SEVERE ORAL INTOXICATION WILL LEAD TO INTENSE BURNING OF THE THROAT AND MAY RESULT IN DROWSINESS, DULLNESS, NUMBNESS, AND HEADACHE FOLLOWED BY DIZZINESS, WEAKNESS, AND NAUSEA. LOSS OF CONSCIOUSNESS AND CONVULSIONS FOLLOWED BY DEATH MAY RESULT.

**HEALTH DATA**

POTENTIALLY FATAL VAPOR CONCENTRATIONS ARE OF LEVELS APPROXIMATELY 100 FOLD THE EXPOSURE LIMITS. SUCH CONCENTRATIONS CAN ONLY BE BUILT UP IN UNVENTILATED, ENCLOSED AND CONFINED SPACES.

THIS PRODUCT IS NOT CARCINOGENIC ACCORDING TO THE OSHA HAZARD COMMUNICATION STANDARD.

**IV. EMERGENCY & FIRST AID PROCEDURES****EYE CONTACT**

IMMEDIATELY FLUSH EYES WITH LARGE AMOUNTS OF WATER AND CONTINUE FLUSHING FOR 15 MINUTES UNTIL IRRITATION SUBSIDES. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION.

**SKIN CONTACT**

WASH CONTAMINATED AREA THOROUGHLY WITH SOAP AND WATER. USE A HAND OR SKIN LOTION TO PREVENT DRYNESS. IF REDNESS OR IRRITATION OCCURS, SEEK MEDICAL ATTENTION.

**INHALATION**

IF EXPOSURE LEVELS EXCEED THE LIMITS LISTED IN SECTION II OR III, REMOVE VICTIM FROM EXPOSURE. IF VICTIM EXHIBITS SIGNS OF VAPOR INTOXICATION REMOVE TO FRESH AIR. IF BREATHING HAS STOPPED OR IS IRREGULAR, ADMINISTER ARTIFICIAL RESPIRATION AND SUPPLY OXYGEN IF IT IS AVAILABLE. IF VICTIM IS UNCONSCIOUS, REMOVE TO FRESH AIR AND SEEK MEDICAL ATTENTION.

**INGESTION**

DO NOT INDUCE VOMITING DUE TO ASPIRATION HAZARD. IF VOMITING OCCURS LOWER HEAD BELOW KNEES TO AVOID ASPIRATION. SEEK MEDICAL ATTENTION.

**PERSONAL HEALTH PROTECTION INFORMATION****EYE PROTECTION**

PLASTIC FACE SHIELD OR SPLASH-PROOF SAFETY GOGGLES SHOULD BE WORN WHEN HANDLING THIS MATERIAL.

**SKIN PROTECTION**

USE IMPERVIOUS SYNTHETIC RUBBER CLOTHING (BOOTS, GLOVES, APRONS, ETC.) OVER PARTS OF THE BODY SUBJECT TO EXPOSURE. LAUNDRY SOILED CLOTHES.

**RESPIRATORY PROTECTION**

RESPIRATORY PROTECTION IS NOT REQUIRED UNDER CONDITIONS OF NORMAL USE. IF VAPOR OR MIST IS GENERATED WHEN THE MATERIAL IS HEATED OR HANDLED, USE AN ORGANIC VAPOR RESPIRATOR WITH A DUST AND MIST FILTER. ALL RESPIRATORS MUST BE NIOSH CERTIFIED.

**VENTILATION**

GENERAL ROOM VENTILATION IS NORMALLY SUFFICIENT. IF VAPOR OR MIST IS GENERATED WHEN THE MATERIAL IS HEATED OR HANDLED, ADEQUATE VENTILATION IN ACCORDANCE WITH GOOD ENGINEERING PRACTICE MUST BE PROVIDED TO MAINTAIN CONCENTRATIONS BELOW THE SPECIFIED EXPOSURE OR FLAMMABLE LIMITS.

**OTHER**

CONSUMPTION OF FOOD AND BEVERAGE SHOULD BE AVOIDED IN WORK AREAS WHERE HYDROCARBONS ARE PRESENT. ALWAYS WASH HANDS AND FACE WITH SOAP AND WATER BEFORE EATING, DRINKING, OR SMOKING.

**VI. FIRE PROTECTION INFORMATION**

FLASH POINT &lt; 20 F

TEST METHOD P.H.C.C.

AUTOIGNITION TEMPERATURE NO DATA

TEST METHOD NO DATA

FLAMMABLE LIMITS IN AIR % BY VOL

LOWER NO DATA

UPPER NO DATA

EXTINGUISHING MEDIA

USE DRY CHEMICAL, FOAM, OR CARBON DIOXIDE.

SPECIAL FIRE FIGHTING PROCEDURES

WATER MAY BE INEFFECTIVE BUT CAN BE USED TO COOL CONTAINERS EXPOSED TO HEAT OR FLAME.

UNUSUAL FIRE AND EXPLOSIVE CONDITIONS

DENSE SMOKE MAY BE GENERATED WHILE BURNING. CARBON MONOXIDE, CARBON DIOXIDE, AND OTHER OXIDES MAY BE GENERATED AS PRODUCTS OF COMBUSTION. CAUTION!---CONTENTS ARE UNDER PRESSURE AND CAN EXPLODE WHEN EXPOSED TO HEAT OR FLAMES.

**VII. REACTIVITY DATA**

STABILITY (THERMAL, LIGHT, ETC.)

STABLE

CONDITIONS TO AVOID

NONE

HAZARDOUS POLYMERIZATION

WILL NOT OCCUR

CONDITIONS TO AVOID

NONE

INCOMPATIBILITY MATERIALS TO AVOID

MAY REACT WITH STRONG OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION PRODUCTS

NONE

**VIII. ENVIRONMENTAL PRECAUTIONS****STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED**

CONSULT HEALTH EFFECT INFORMATION IN SECTION III, PERSONAL HEALTH PROTECTION INFORMATION IN SECTION V, FIRE PROTECTION INFORMATION IN SECTION VI, AND REACTIVITY DATA IN SECTION VII, NOTIFY APPROPRIATE AUTHORITIES OF SPILL. CONTAIN SPILL IMMEDIATELY. DO NOT ALLOW SPILL TO ENTER SEWERS OR WATERCOURSES. REMOVE ALL SOURCES OF IGNITION. PROVIDE ADEQUATE VENTILATION DURING CLEAN-UP. ABSORB WITH SOLVENT ABSORBENT MATERIAL. LARGE SPILLS MAY BE PICKED UP USING VACUUM PUMPS, SHOVELS, BUCKETS, OR OTHER MEANS AND PLACED IN DRUMS OR OTHER SUITABLE CONTAINERS.

**WASTE DISPOSAL METHOD**

ALL DISPOSALS MUST COMPLY WITH FEDERAL, STATE, AND LOCAL REGULATIONS. THE MATERIAL, IF SPILLED OR DISCARDED, MAY BE A RCRA WASTE. THE MATERIAL, IF SPILLED OR DISCARDED, MAY BE A REGULATED WASTE. REFER TO STATE AND LOCAL REGULATIONS. CAUTION! IF REGULATED SOLVENTS ARE USED TO CLEAN UP SPILLED MATERIAL, THE RESULTING WASTE MIXTURE MAY BE REGULATED. DEPARTMENT OF TRANSPORTATION (DOT) REGULATIONS MAY APPLY FOR TRANSPORTING THIS MATERIAL WHEN SPILLED. WASTE MATERIAL MAY BE LANDFILLED OR INCINERATED AT AN APPROVED FACILITY.

**IX. MISCELLANEOUS****HANDLING AND STORAGE REQUIREMENTS**

THIS PRODUCT IS CLASSIFIED AS ORM-D (CONSUMER COMMODITY) UNDER DOT REGULATIONS. SEE 49 CFR 171 THROUGH 178 FOR SHIPPING REQUIREMENTS. ALL IGNITION SOURCES IN THE AREA SHOULD BE CONTROLLED. FIRE EXTINGUISHERS SHOULD BE KEPT READILY AVAILABLE. SEE NFPA 30 AND OSHA 1910.106--FLAMMABLE AND COMBUSTIBLE LIQUIDS. DO NOT STORE AT TEMPERATURES GREATER THAN 120 F. CONTENTS UNDER PRESSURE AND CAN EXPLODE WHEN EXPOSED TO HEAT OR OPEN FLAME. CAUTION!--DO NOT PUNCTURE OR INCINERATE.

**ADDITIONAL INFORMATION**

THIS MIXTURE MAY BE FORMULATED IN PART WITH COMPONENTS PURCHASED FROM OTHER COMPANIES. IN MANY INSTANCES, ESPECIALLY WHEN PROPRIETARY OR TRADE SECRET MATERIALS ARE USED, PENNZOIL COMPANY MUST RELY UPON THE HAZARD EVALUATION OF SUCH COMPONENTS SUBMITTED TO PENNZOIL BY THAT PRODUCT'S MANUFACTURER OR IMPORTER.

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THIS PRODUCT CONTAINS THE FOLLOWING SARA TITLE III, SECTION 313  
CHEMICALS:  
XYLENE, CAS# 1330-20-7, 58.44%  
METHYL ETHYL KETONE, CAS# 78-93-3, 9.48%  
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**X. PHYSICAL PROPERTIES**

BOILING POINT	< -20 F (PROPELLANT)	PERCENT VOLATILE	10
MELTING POINT	N/A	VAPOR DENSITY (AIR=1)	3 - 5
APPEARANCE	CLEAR, WATER-WHITE	EVAPORATION RATE (EE=1)	> 1
ODOR	PLEASANT ODOR	SPECIFIC GRAVITY	0.9
VAPOR PRESSURE	50PSIG @ 20C IN CAN.	MOLECULAR WEIGHT	VARIES
SOLUBILITY	SOLUBLE IN HYDROCARBONS. EMULSIFIES IN WATER.		