

3M(TM) 5-WAY SPRAY

04/05/16

3M

SAFETY DATA SHEET

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SECTION 1: IDENTIFICATION

1.1. PRODUCT IDENTIFIER: 3M(TM) 5-WAY SPRAY

PRODUCT IDENTIFICATION NUMBERS: 62-4978-4930-7, 62-4978-4935-6

1.2. RECOMMENDED USE AND RESTRICTIONS ON USE:

RECOMMENDED USE: PENETRANT, LUBRICANT AND DEMOISTURIZER

1.3. SUPPLIER'S DETAILS:

MANUFACTURER: 3M

DIVISION: INDUSTRIAL ADHESIVES AND TAPES DIVISION

ADDRESS:

3M CENTER

ST. PAUL, MN 55144-1000

USA

TELEPHONE: 1-888-3M HELPS (1-888-364-3577)

1.4. EMERGENCY TELEPHONE NUMBER:

1-800-364-3577 OR (651) 737-6501 (24 HOURS)

SECTION 2: HAZARD IDENTIFICATION

2.1. HAZARD CLASSIFICATION:

FLAMMABLE AEROSOL: CATEGORY 1.

GAS UNDER PRESSURE: LIQUEFIED GAS.

SIMPLE ASPHYXIANANT.

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE): CATEGORY 1.

SPECIFIC TARGET ORGAN TOXICITY (CENTRAL NERVOUS SYSTEM): CATEGORY 3.

2.2. LABEL ELEMENTS:

SIGNAL WORD: DANGER

SYMBOLS:

FLAME

GAS CYLINDER

EXCLAMATION MARK

HEALTH HAZARD

PICTOGRAMS:

FLAME

GAS CYLINDER

EXCLAMATION MARK

HEALTH HAZARD

HAZARD STATEMENTS:

EXTREMELY FLAMMABLE AEROSOL.

CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED.

MAY CAUSE DROWSINESS OR DIZZINESS.

MAY DISPLACE OXYGEN AND CAUSE RAPID SUFFOCATION.

CAUSES DAMAGE TO ORGANS: CARDIOVASCULAR SYSTEM

PRECAUTIONARY STATEMENTS:

PREVENTION:

KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES. - NO SMOKING.

DO NOT SPRAY ON AN OPEN FLAME OR OTHER IGNITION SOURCE.

PRESSURIZED CONTAINER: DO NOT PIERCE OR BURN, EVEN AFTER USE.

DO NOT BREATHE DUST/FUME/GAS/MIST/VAPORS/SPRAY.

USE ONLY OUTDOORS OR IN A WELL-VENTILATED AREA.

DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT.

WASH THOROUGHLY AFTER HANDLING.

RESPONSE:

IF INHALED: REMOVE PERSON TO FRESH AIR AND KEEP COMFORTABLE FOR BREATHING.

IF EXPOSED: CALL A POISON CENTER OR DOCTOR/PHYSICIAN.

SPECIFIC TREATMENT (SEE NOTES TO PHYSICIAN ON THIS LABEL).

STORAGE:

PROTECT FROM SUNLIGHT. DO NOT EXPOSE TO TEMPERATURES EXCEEDING 50C/122F.

STORE IN A WELL-VENTILATED PLACE. KEEP CONTAINER TIGHTLY CLOSED.

STORE LOCKED UP.

DISPOSAL:
DISPOSE OF CONTENTS/CONTAINER IN ACCORDANCE WITH APPLICABLE
LOCAL/REGIONAL/NATIONAL/INTERNATIONAL REGULATIONS.

NOTES TO PHYSICIAN:
EXPOSURE MAY INCREASE MYOCARDIAL IRRITABILITY. DO NOT ADMINISTER
SYMPATHOMIMETIC DRUGS UNLESS ABSOLUTELY NECESSARY.

2.3. HAZARDS NOT OTHERWISE CLASSIFIED:
INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING CONTENTS CAN
BE HARMFUL OR FATAL.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	C.A.S. NO.	% BY WT
ALIPHATIC HYDROCARBON	64742-47-8	50 - 60 TRADE SECRET *
BUTANE	106-97-8	10 - 20 TRADE SECRET *
PROPANE	74-98-6	10 - 20 TRADE SECRET *
PETROLEUM OIL	64742-52-5	3 - 7 TRADE SECRET *
HEAVY PARAFFINIC OIL	64742-54-7	1 - 5 TRADE SECRET *
PETROLATUM	8009-03-8	1 - 5 TRADE SECRET *

*THE SPECIFIC CHEMICAL IDENTITY AND/OR EXACT PERCENTAGE (CONCENTRATION)
OF THIS COMPOSITION HAS BEEN WITHHELD AS A TRADE SECRET.

SECTION 4: FIRST AID MEASURES

4.1. DESCRIPTION OF FIRST AID MEASURES:

INHALATION: REMOVE PERSON TO FRESH AIR. GET MEDICAL ATTENTION.

SKIN CONTACT:
WASH WITH SOAP AND WATER. IF SIGNS/SYMPTOMS DEVELOP, GET MEDICAL ATTENTION.

EYE CONTACT:
FLUSH WITH LARGE AMOUNTS OF WATER. REMOVE CONTACT LENSES IF EASY TO DO.
CONTINUE RINSING. IF SIGNS/SYMPTOMS PERSIST, GET MEDICAL ATTENTION.

IF SWALLOWED: RINSE MOUTH. IF YOU FEEL UNWELL, GET MEDICAL ATTENTION.

4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:
SEE SECTION 11.1. INFORMATION ON TOXICOLOGICAL EFFECTS.

4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT
REQUIRED:

EXPOSURE MAY INCREASE MYOCARDIAL IRRITABILITY. DO NOT ADMINISTER SYMPATHOMIMETIC DRUGS UNLESS ABSOLUTELY NECESSARY.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. SUITABLE EXTINGUISHING MEDIA:

USE A FIRE FIGHTING AGENT SUITABLE FOR THE SURROUNDING FIRE.

5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

CLOSED CONTAINERS EXPOSED TO HEAT FROM FIRE MAY BUILD PRESSURE AND EXPLODE.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:

SUBSTANCE	CONDITION
CARBON MONOXIDE	DURING COMBUSTION
CARBON DIOXIDE	DURING COMBUSTION

5.3. SPECIAL PROTECTIVE ACTIONS FOR FIRE-FIGHTERS:

WATER MAY NOT EFFECTIVELY EXTINGUISH FIRE; HOWEVER, IT SHOULD BE USED TO KEEP FIRE-EXPOSED CONTAINERS AND SURFACES COOL AND PREVENT EXPLOSIVE RUPTURE.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES: EVACUATE AREA. KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES. - NO SMOKING. USE ONLY NON-SPARKING TOOLS. VENTILATE THE AREA WITH FRESH AIR. FOR LARGE SPILL, OR SPILLS IN CONFINED SPACES, PROVIDE MECHANICAL VENTILATION TO DISPERSE OR EXHAUST VAPORS, IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE PRACTICE.

WARNING!

A MOTOR COULD BE AN IGNITION SOURCE AND COULD CAUSE FLAMMABLE GASES OR VAPORS IN THE SPILL AREA TO BURN OR EXPLODE. REFER TO OTHER SECTIONS OF THIS SDS FOR INFORMATION REGARDING PHYSICAL AND HEALTH HAZARDS, RESPIRATORY PROTECTION, VENTILATION, AND PERSONAL PROTECTIVE EQUIPMENT.

6.2. ENVIRONMENTAL PRECAUTIONS:

AVOID RELEASE TO THE ENVIRONMENT. FOR LARGER SPILLS, COVER DRAINS AND BUILD DIKES TO PREVENT ENTRY INTO SEWER SYSTEMS OR BODIES OF WATER.

6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:

IF POSSIBLE, SEAL LEAKING CONTAINER. PLACE LEAKING CONTAINERS IN A WELL-VENTILATED AREA, PREFERABLY AN OPERATING EXHAUST HOOD, OR IF NECESSARY OUTDOORS ON AN IMPERMEABLE SURFACE UNTIL APPROPRIATE PACKAGING FOR THE LEAKING CONTAINER OR ITS CONTENTS IS AVAILABLE. CONTAIN SPILL. COVER SPILL AREA WITH A FIRE-EXTINGUISHING FOAM. AN APPROPRIATE AQUEOUS FILM FORMING FOAM (AFFF) IS RECOMMENDED. WORKING FROM AROUND THE EDGES OF THE SPILL

INWARD, COVER WITH BENTONITE, VERMICULITE, OR COMMERCIALY AVAILABLE INORGANIC ABSORBENT MATERIAL. MIX IN SUFFICIENT ABSORBENT UNTIL IT APPEARS DRY. REMEMBER, ADDING AN ABSORBENT MATERIAL DOES NOT REMOVE A PHYSICAL, HEALTH, OR ENVIRONMENTAL HAZARD. COLLECT AS MUCH OF THE SPILLED MATERIAL AS POSSIBLE USING NON-SPARKING TOOLS. PLACE IN A METAL CONTAINER APPROVED FOR TRANSPORTATION BY APPROPRIATE AUTHORITIES. CLEAN UP RESIDUE WITH AN APPROPRIATE SOLVENT SELECTED BY A QUALIFIED AND AUTHORIZED PERSON. VENTILATE THE AREA WITH FRESH AIR. READ AND FOLLOW SAFETY PRECAUTIONS ON THE SOLVENT LABEL AND SDS. SEAL THE CONTAINER. DISPOSE OF COLLECTED MATERIAL AS SOON AS POSSIBLE.

SECTION 7: HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING:

FOR INDUSTRIAL OR PROFESSIONAL USE ONLY. KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES. - NO SMOKING. DO NOT SPRAY ON AN OPEN FLAME OR OTHER IGNITION SOURCE. DO NOT PIERCE OR BURN, EVEN AFTER USE. DO NOT BREATHE DUST/FUME/GAS/MIST/VAPORS/SPRAY. DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING. DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT. WASH THOROUGHLY AFTER HANDLING. AVOID CONTACT WITH OXIDIZING AGENTS (EG. CHLORINE, CHROMIC ACID ETC.)

7.2. CONDITIONS FOR SAFE STORAGE INCLUDING ANY INCOMPATIBILITIES:

STORE IN A WELL-VENTILATED PLACE. KEEP CONTAINER TIGHTLY CLOSED. PROTECT FROM SUNLIGHT. DO NOT EXPOSE TO TEMPERATURES EXCEEDING 50C/122F. STORE AWAY FROM ACIDS. STORE AWAY FROM OXIDIZING AGENTS.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. CONTROL PARAMETERS:

OCCUPATIONAL EXPOSURE LIMITS:

IF A COMPONENT IS DISCLOSED IN SECTION 3 BUT DOES NOT APPEAR IN THE TABLE BELOW, AN OCCUPATIONAL EXPOSURE LIMIT IS NOT AVAILABLE FOR THE COMPONENT.

INGREDIENT	C.A.S. NO.	AGENCY	LIMIT TYPE	ADDITIONAL COMMENTS
BUTANE	106-97-8	ACGIH	STEL: 1000 PPM	
NATURAL GAS	106-97-8	ACGIH	LIMIT VALUE NOT ESTABLISHED:	
ALIPHATIC HYDROCARBON	64742-47-8	CMRG	TWA: 165 PPM	
JET FUELS (NON-AEROSOL), AS TOTAL HYDROCARBON VAPOR	64742-47-8	ACGIH	TWA (AS TOTAL HYDROCARBON VAPOR, NON-AEROSOL) : 200 MG/M3	A3: CONFIRMED ANIMAL CARCIN., SKIN NOTATION

KEROSINE (PETROLEUM)	64742-47-8	ACGIH	TWA (AS TOTAL HYDROCARBON VAPOR, NON-AEROSOL) : 200 MG/M3	A3: CONFIRMED ANIMAL CARCIN., SKIN NOTATION
PARAFFIN OIL	64742-52-5	OSHA	TWA (AS MIST) : 5 MG/M3	
PETROLEUM DISTILLATES	64742-52-5	OSHA	TWA: 2000 MG/M3 (500 PPM)	
MINERAL OILS, HIGHLY-REFINED OILS	64742-54-7	ACGIH	TWA (INHALABLE FRACTION) : 5 MG/M3	A4: NOT CLASS. AS HUMAN CARCIN
PROPANE	74-98-6	ACGIH	LIMIT VALUE NOT ESTABLISHED:	
PROPANE	74-98-6	OSHA	TWA: 1800 MG/M3 (1000 PPM)	
MINERAL OILS (UNTREATED AND MILDLY TREATED)	8009-03-8	ACGIH	LIMIT VALUE NOT ESTABLISHED:	A2: SUSPECTED HUMAN CARCIN., CNTRL ALL EXPOSR-LOW AS POSSIB
MINERAL OILS, HIGHLY- REFINED OILS	8009-03-8	ACGIH	TWA (INHALABLE FRACTION) : 5 MG/M3	A4: NOT CLASS. AS HUMAN CARCIN
PARAFFIN OIL	8009-03-8	OSHA	TWA (AS MIST) : 5 MG/M3	

ACGIH: AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS

AIHA: AMERICAN INDUSTRIAL HYGIENE ASSOCIATION

CMRG: CHEMICAL MANUFACTURER'S RECOMMENDED GUIDELINES

OSHA:

UNITED STATES DEPARTMENT OF LABOR - OCCUPATIONAL SAFETY AND HEALTH
ADMINISTRATION

TWA: TIME-WEIGHTED-AVERAGE

STEL: SHORT TERM EXPOSURE LIMIT

CEIL: CEILING

8.2. EXPOSURE CONTROLS:

8.2.1. ENGINEERING CONTROLS:

DO NOT REMAIN IN AREA WHERE AVAILABLE OXYGEN MAY BE REDUCED. USE GENERAL
DILUTION VENTILATION AND/OR LOCAL EXHAUST VENTILATION TO CONTROL AIRBORNE

EXPOSURES TO BELOW RELEVANT EXPOSURE LIMITS AND/OR CONTROL DUST/FUME/GAS/MIST/VAPORS/SPRAY. IF VENTILATION IS NOT ADEQUATE, USE RESPIRATORY PROTECTION EQUIPMENT.

8.2.2. PERSONAL PROTECTIVE EQUIPMENT (PPE):

EYE/FACE PROTECTION:

SELECT AND USE EYE/FACE PROTECTION TO PREVENT CONTACT BASED ON THE RESULTS OF AN EXPOSURE ASSESSMENT. THE FOLLOWING EYE/FACE PROTECTION(S) ARE RECOMMENDED: INDIRECT VENTED GOGGLES

SKIN/HAND PROTECTION:

SELECT AND USE GLOVES AND/OR PROTECTIVE CLOTHING APPROVED TO RELEVANT LOCAL STANDARDS TO PREVENT SKIN CONTACT BASED ON THE RESULTS OF AN EXPOSURE ASSESSMENT. SELECTION SHOULD BE BASED ON USE FACTORS SUCH AS EXPOSURE LEVELS, CONCENTRATION OF THE SUBSTANCE OR MIXTURE, FREQUENCY AND DURATION, PHYSICAL CHALLENGES SUCH AS TEMPERATURE EXTREMES, AND OTHER USE CONDITIONS. CONSULT WITH YOUR GLOVE AND/OR PROTECTIVE CLOTHING MANUFACTURER FOR SELECTION OF APPROPRIATE COMPATIBLE GLOVES/PROTECTIVE CLOTHING.

GLOVES MADE FROM THE FOLLOWING MATERIAL(S) ARE RECOMMENDED: NITRILE RUBBER

RESPIRATORY PROTECTION:

AN EXPOSURE ASSESSMENT MAY BE NEEDED TO DECIDE IF A RESPIRATOR IS REQUIRED. IF A RESPIRATOR IS NEEDED, USE RESPIRATORS AS PART OF A FULL RESPIRATORY PROTECTION PROGRAM. BASED ON THE RESULTS OF THE EXPOSURE ASSESSMENT, SELECT FROM THE FOLLOWING RESPIRATOR TYPE(S) TO REDUCE INHALATION EXPOSURE: HALF FACEPIECE OR FULL FACEPIECE SUPPLIED-AIR RESPIRATOR ORGANIC VAPOR RESPIRATORS MAY HAVE SHORT SERVICE LIFE.

FOR QUESTIONS ABOUT SUITABILITY FOR A SPECIFIC APPLICATION, CONSULT WITH YOUR RESPIRATOR MANUFACTURER.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

GENERAL PHYSICAL FORM: LIQUID

ODOR, COLOR, GRADE: AMBER COLORED LIQUID, STRONG SOLVENT ODOR

ODOR THRESHOLD: NO DATA AVAILABLE

PH: NO DATA AVAILABLE

MELTING POINT: NOT APPLICABLE

BOILING POINT: <=458

FLASH POINT: 00 DEG. F

EVAPORATION RATE: NO DATA AVAILABLE

FLAMMABILITY (SOLID, GAS): NOT APPLICABLE

FLAMMABLE LIMITS (LEL): 0.6

FLAMMABLE LIMITS (UEL): 9.5

VAPOR PRESSURE: NO DATA AVAILABLE

VAPOR DENSITY: 2 [REF STD: AIR=1]

DENSITY: 0.72 G/ML

SPECIFIC GRAVITY: 0.72 [REF STD: WATER=1]

SOLUBILITY IN WATER: NO DATA AVAILABLE

SOLUBILITY-NON-WATER: NO DATA AVAILABLE

PARTITION COEFFICIENT N-OCTANOL/WATER: NO DATA AVAILABLE

AUTOIGNITION TEMPERATURE: NO DATA AVAILABLE

DECOMPOSITION TEMPERATURE: NOT APPLICABLE

VISCOSITY: NO DATA AVAILABLE

HAZARDOUS AIR POLLUTANTS: 0% WEIGHT [TEST METHOD: CALCULATED]

VOC LESS H₂O & EXEMPT SOLVENTS:

<=30% [TEST METHOD: CALCULATED PER CARB TITLE 2]

SOLIDS CONTENT: 15%

SECTION 10: STABILITY AND REACTIVITY

10.1. REACTIVITY:

THIS MATERIAL MAY BE REACTIVE WITH CERTAIN AGENTS UNDER CERTAIN CONDITIONS
- SEE THE REMAINING HEADINGS IN THIS SECTION.

10.2. CHEMICAL STABILITY: STABLE.

10.3. POSSIBILITY OF HAZARDOUS REACTIONS:

HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

10.4. CONDITIONS TO AVOID: SPARKS AND/OR FLAMES

10.5. INCOMPATIBLE MATERIALS: STRONG OXIDIZING AGENTS

10.6. HAZARDOUS DECOMPOSITION PRODUCTS:

SUBSTANCE	CONDITION
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NONE KNOWN.

REFER TO SECTION 5.2 FOR HAZARDOUS DECOMPOSITION PRODUCTS DURING

COMBUSTION.

SECTION 11: TOXICOLOGICAL INFORMATION

THE INFORMATION BELOW MAY NOT BE CONSISTENT WITH THE MATERIAL CLASSIFICATION IN SECTION 2 IF SPECIFIC INGREDIENT CLASSIFICATIONS ARE MANDATED BY A COMPETENT AUTHORITY. IN ADDITION, TOXICOLOGICAL DATA ON INGREDIENTS MAY NOT BE REFLECTED IN THE MATERIAL CLASSIFICATION AND/OR THE SIGNS AND SYMPTOMS OF EXPOSURE, BECAUSE AN INGREDIENT MAY BE PRESENT BELOW THE THRESHOLD FOR LABELING, AN INGREDIENT MAY NOT BE AVAILABLE FOR EXPOSURE, OR THE DATA MAY NOT BE RELEVANT TO THE MATERIAL AS A WHOLE.

11.1. INFORMATION ON TOXICOLOGICAL EFFECTS:

SIGNS AND SYMPTOMS OF EXPOSURE:

BASED ON TEST DATA AND/OR INFORMATION ON THE COMPONENTS, THIS MATERIAL MAY PRODUCE THE FOLLOWING HEALTH EFFECTS:

INHALATION:

INTENTIONAL CONCENTRATION AND INHALATION MAY BE HARMFUL OR FATAL.

SIMPLE ASPHYXIATION:

SIGNS/SYMPTOMS MAY INCLUDE INCREASED HEART RATE, RAPID RESPIRATIONS, DROWSINESS, HEADACHE, INCOORDINATION, ALTERED JUDGMENT, NAUSEA, VOMITING, LETHARGY, SEIZURES, COMA, AND MAY BE FATAL.

RESPIRATORY TRACT IRRITATION:

SIGNS/SYMPTOMS MAY INCLUDE COUGH, SNEEZING, NASAL DISCHARGE, HEADACHE, HOARSENESS, AND NOSE AND THROAT PAIN.

MAY CAUSE ADDITIONAL HEALTH EFFECTS (SEE BELOW).

SKIN CONTACT:

MILD SKIN IRRITATION:

SIGNS/SYMPTOMS MAY INCLUDE LOCALIZED REDNESS, SWELLING, ITCHING, AND DRYNESS.

EYE CONTACT:

CONTACT WITH THE EYES DURING PRODUCT USE IS NOT EXPECTED TO RESULT IN SIGNIFICANT IRRITATION.

INGESTION:

GASTROINTESTINAL IRRITATION:

SIGNS/SYMPTOMS MAY INCLUDE ABDOMINAL PAIN, STOMACH UPSET, NAUSEA, VOMITING AND DIARRHEA.

MAY CAUSE ADDITIONAL HEALTH EFFECTS (SEE BELOW).

ADDITIONAL HEALTH EFFECTS:

SINGLE EXPOSURE MAY CAUSE TARGET ORGAN EFFECTS:

CENTRAL NERVOUS SYSTEM (CNS) DEPRESSION:
 SIGNS/SYMPTOMS MAY INCLUDE HEADACHE, DIZZINESS, DROWSINESS, INCOORDINATION,
 NAUSEA, SLOWED REACTION TIME, SLURRED SPEECH, GIDDINESS, AND
 UNCONSCIOUSNESS.

SINGLE EXPOSURE, ABOVE RECOMMENDED GUIDELINES, MAY CAUSE:

CARDIAC SENSITIZATION:
 SIGNS/SYMPTOMS MAY INCLUDE IRREGULAR HEARTBEAT (ARRHYTHMIA), FAINTNESS,
 CHEST PAIN, AND MAY BE FATAL.

CARCINOGENICITY:

INGREDIENT	CAS NO.	CLASS DESCRIPTION	REGULATION
GENERIC: MINERAL OILS (UNTREATED AND MILDLY TREATED)	8009-03-8	GRP. 1: CARCINOGENIC TO HUMANS	INTERNATIONAL AGENCY FOR RESEARCH ON CANCER
GENERIC: MINERAL OILS (UNTREATED AND MILDLY TREATED)	8009-03-8	KNOWN HUMAN CARCINOGEN	NATIONAL TOXICOLOGY PROGRAM CARCINOGENS

TOXICOLOGICAL DATA:
 IF A COMPONENT IS DISCLOSED IN SECTION 3 BUT DOES NOT APPEAR IN A TABLE
 BELOW, EITHER NO DATA ARE AVAILABLE FOR THAT ENDPOINT OR THE DATA ARE NOT
 SUFFICIENT FOR CLASSIFICATION.

ACUTE TOXICITY:

NAME	ROUTE	SPECIES	VALUE
OVERALL PRODUCT	DERMAL		NO DATA AVAILABLE; CALCULATED ATE >5,000 MG/KG
OVERALL PRODUCT	INGESTION		NO DATA AVAILABLE; CALCULATED ATE >5,000 MG/KG
ALIPHATIC HYDROCARBON	DERMAL	RABBIT	LD50 >3,160 MG/KG
ALIPHATIC HYDROCARBON	INHALATION-DUST/MIST (4 HOURS)	RAT	LC50 >3 MG/L
ALIPHATIC HYDROCARBON	INGESTION	RAT	LD50 >5,000 MG/KG
PROPANE	INHALATION-GAS (4 HOURS)	RAT	LC50 >200,000 PPM
BUTANE	INHALATION-GAS (4 HOURS)	RAT	LC50 277,000 PPM

PETROLEUM OIL	DERMAL	RABBIT	LD50 >2,000 MG/KG
PETROLEUM OIL	INGESTION	RAT	LD50 >5,000 MG/KG
PETROLATUM	DERMAL		LD50 ESTIMATED TO BE >5,000 MG/KG
PETROLATUM	INGESTION	RAT	LD50 >5,000 MG/KG
HEAVY PARAFFINIC OIL	DERMAL	RABBIT	LD50 >5,000 MG/KG
HEAVY PARAFFINIC OIL	INGESTION	RAT	LD50 >5,000 MG/KG

ATE = ACUTE TOXICITY ESTIMATE

SKIN CORROSION/IRRITATION:

NAME	SPECIES	VALUE
ALIPHATIC HYDROCARBON	RABBIT	MILD IRRITANT
PROPANE	RABBIT	MINIMAL IRRITATION
BUTANE	PROFESSIONAL JUDGMENT	NO SIGNIFICANT IRRITATION
PETROLEUM OIL	RABBIT	MINIMAL IRRITATION
HEAVY PARAFFINIC OIL	RABBIT	MINIMAL IRRITATION

SERIOUS EYE DAMAGE/IRRITATION:

NAME	SPECIES	VALUE
ALIPHATIC HYDROCARBON	RABBIT	MILD IRRITANT
PROPANE	RABBIT	MILD IRRITANT
BUTANE	RABBIT	NO SIGNIFICANT IRRITATION
PETROLEUM OIL	RABBIT	MILD IRRITANT
HEAVY PARAFFINIC OIL	RABBIT	MILD IRRITANT

SKIN SENSITIZATION:

NAME	SPECIES	VALUE
ALIPHATIC HYDROCARBON	GUINEA PIG	NOT SENSITIZING
PETROLEUM OIL	GUINEA PIG	NOT SENSITIZING
HEAVY PARAFFINIC OIL	GUINEA PIG	NOT SENSITIZING

RESPIRATORY SENSITIZATION:

FOR THE COMPONENT/COMPONENTS, EITHER NO DATA ARE CURRENTLY AVAILABLE OR THE

DATA ARE NOT SUFFICIENT FOR CLASSIFICATION.

GERM CELL MUTAGENICITY:

NAME	ROUTE	VALUE
ALIPHATIC HYDROCARBON	IN VITRO	NOT MUTAGENIC
PROPANE	IN VITRO	NOT MUTAGENIC
BUTANE	IN VITRO	NOT MUTAGENIC
HEAVY PARAFFINIC OIL	IN VITRO	SOME POSITIVE DATA EXIST, BUT THE DATA ARE NOT SUFFICIENT FOR CLASSIFICATION

CARCINOGENICITY:

NAME	ROUTE	SPECIES	VALUE
ALIPHATIC HYDROCARBON	DERMAL	MOUSE	SOME POSITIVE DATA EXIST, BUT THE DATA ARE NOT SUFFICIENT FOR CLASSIFICATION
PETROLEUM OIL	INGESTION	RAT	NOT CARCINOGENIC
PETROLEUM OIL	DERMAL	MOUSE	SOME POSITIVE DATA EXIST, BUT THE DATA ARE NOT SUFFICIENT FOR CLASSIFICATION
HEAVY PARAFFINIC OIL	DERMAL	MOUSE	SOME POSITIVE DATA EXIST, BUT THE DATA ARE NOT SUFFICIENT FOR CLASSIFICATION

REPRODUCTIVE TOXICITY:

REPRODUCTIVE AND/OR DEVELOPMENTAL EFFECTS:
FOR THE COMPONENT/COMPONENTS, EITHER NO DATA ARE CURRENTLY AVAILABLE OR THE DATA ARE NOT SUFFICIENT FOR CLASSIFICATION.

TARGET ORGAN(S) :

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE:

NAME	ROUTE	TARGET ORGAN(S)	VALUE
ALIPHATIC HYDROCARBON	INHALATION	CENTRAL NERVOUS SYSTEM DEPRESSION	MAY CAUSE DROWSINESS OR DIZZINESS
ALIPHATIC HYDROCARBON	INHALATION	RESPIRATORY IRRITATION	SOME POSITIVE DATA EXIST, BUT THE DATA ARE NOT SUFFICIENT FOR CLASSIFICATION
ALIPHATIC HYDROCARBON	INGESTION	CENTRAL NERVOUS SYSTEM DEPRESSION	MAY CAUSE DROWSINESS OR DIZZINESS
PROPANE	INHALATION	CARDIAC	CAUSES DAMAGE TO ORGANS

SENSITIZATION

PROPANE	INHALATION	CENTRAL NERVOUS SYSTEM DEPRESSION	MAY CAUSE DROWSINESS OR DIZZINESS
PROPANE	INHALATION	RESPIRATORY IRRITATION	ALL DATA ARE NEGATIVE
BUTANE	INHALATION	CARDIAC SENSITIZATION	CAUSES DAMAGE TO ORGANS
BUTANE	INHALATION	CENTRAL NERVOUS SYSTEM DEPRESSION	MAY CAUSE DROWSINESS OR DIZZINESS
BUTANE	INHALATION	HEART	SOME POSITIVE DATA EXIST, BUT THE DATA ARE NOT SUFFICIENT FOR CLASSIFICATION
BUTANE	INHALATION	RESPIRATORY IRRITATION	ALL DATA ARE NEGATIVE
PETROLEUM OIL	INHALATION	RESPIRATORY IRRITATION	SOME POSITIVE DATA EXIST, BUT THE DATA ARE NOT SUFFICIENT FOR CLASSIFICATION
HEAVY PARAFFINIC OIL	INHALATION	CENTRAL NERVOUS SYSTEM DEPRESSION	MAY CAUSE DROWSINESS OR DIZZINESS
HEAVY PARAFFINIC OIL	INGESTION	CENTRAL NERVOUS SYSTEM DEPRESSION	MAY CAUSE DROWSINESS OR DIZZINESS
NAME	SPECIES	TEST RESULT	EXPOSURE DURATION
ALIPHATIC HYDROCARBON	HUMAN AND ANIMAL	NOAEL NOT AVAILABLE	
ALIPHATIC HYDROCARBON		NOAEL NOT AVAILABLE	
ALIPHATIC HYDROCARBON	PROFESSIONAL JUDGMENT	NOAEL NOT AVAILABLE	
PROPANE	HUMAN	NOAEL NOT AVAILABLE	
PROPANE	HUMAN	NOAEL NOT AVAILABLE	
PROPANE	HUMAN	NOAEL NOT AVAILABLE	
BUTANE	HUMAN	NOAEL NOT AVAILABLE	
BUTANE	HUMAN AND ANIMAL	NOAEL NOT AVAILABLE	

BUTANE	DOG	NOAEL 5,000 PPM	25 MINUTES
BUTANE	RABBIT	NOAEL NOT AVAILABLE	
PETROLEUM OIL		NOAEL NOT AVAILABLE	
HEAVY PARAFFINIC OIL	HUMAN AND ANIMAL	NOAEL NOT AVAILABLE	
HEAVY PARAFFINIC OIL	PROFESSIONAL JUDGMENT	NOAEL NOT AVAILABLE	

SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE:

NAME	ROUTE	TARGET ORGAN(S)	VALUE
BUTANE	INHALATION	KIDNEY AND/OR BLADDER	SOME POSITIVE DATA EXIST, BUT THE DATA ARE NOT SUFFICIENT FOR CLASSIFICATION
BUTANE	INHALATION	BLOOD	ALL DATA ARE NEGATIVE
HEAVY PARAFFINIC OIL	INHALATION	RESPIRATORY SYSTEM	SOME POSITIVE DATA EXIST, BUT THE DATA ARE NOT SUFFICIENT FOR CLASSIFICATION

NAME	SPECIES	TEST RESULT	EXPOSURE DURATION
BUTANE	RAT	NOAEL 4,489 PPM	90 DAYS
BUTANE	RAT	NOAEL 4,489 PPM	90 DAYS
HEAVY PARAFFINIC OIL	RAT	NOAEL 0.21 MG/L	28 DAYS

ASPIRATION HAZARD:

NAME	VALUE
ALIPHATIC HYDROCARBON	ASPIRATION HAZARD

PLEASE CONTACT THE ADDRESS OR PHONE NUMBER LISTED IN SECTION 1 OF THIS SDS FOR ADDITIONAL TOXICOLOGICAL INFORMATION ON THIS MATERIAL AND/OR ITS COMPONENTS.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION:

PLEASE CONTACT THE ADDRESS OR PHONE NUMBER LISTED IN SECTION 1 OF THIS SDS FOR ADDITIONAL ECOTOXICOLOGICAL INFORMATION ON THIS MATERIAL AND/OR ITS COMPONENTS.

CHEMICAL FATE INFORMATION:

PLEASE CONTACT THE ADDRESS OR PHONE NUMBER LISTED IN SECTION 1 OF THIS SDS FOR ADDITIONAL CHEMICAL FATE INFORMATION ON THIS MATERIAL AND/OR ITS COMPONENTS.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. DISPOSAL METHODS:

DISPOSE OF CONTENTS/CONTAINER IN ACCORDANCE WITH THE LOCAL/REGIONAL/NATIONAL/INTERNATIONAL REGULATIONS.

DISPOSE OF WASTE PRODUCT IN A PERMITTED INDUSTRIAL WASTE FACILITY. FACILITY MUST BE CAPABLE OF HANDLING AEROSOL CANS. EMPTY DRUMS/BARRELS/CONTAINERS USED FOR TRANSPORTING AND HANDLING HAZARDOUS CHEMICALS (CHEMICAL SUBSTANCES/MIXTURES/PREPARATIONS CLASSIFIED AS HAZARDOUS AS PER APPLICABLE REGULATIONS) SHALL BE CONSIDERED, STORED, TREATED & DISPOSED OF AS HAZARDOUS WASTES UNLESS OTHERWISE DEFINED BY APPLICABLE WASTE REGULATIONS. CONSULT WITH THE RESPECTIVE REGULATING AUTHORITIES TO DETERMINE THE AVAILABLE TREATMENT AND DISPOSAL FACILITIES.

EPA HAZARDOUS WASTE NUMBER (RCRA): D001 (IGNITABLE)

SECTION 14: TRANSPORT INFORMATION

FOR TRANSPORT INFORMATION, PLEASE VISIT:

[HTTP://3M.COM/TRANSPORTINFO](http://3m.com/transportinfo) OR CALL 1-800-364-3577 OR 651-737-6501.

SECTION 15: REGULATORY INFORMATION

15.1. US FEDERAL REGULATIONS: CONTACT 3M FOR MORE INFORMATION.

311/312 HAZARD CATEGORIES:

FIRE HAZARD: YES

REACTIVITY HAZARD: NO

PRESSURE HAZARD: YES

IMMEDIATE HAZARD: YES

DELAYED HAZARD: NO

15.2. STATE REGULATIONS: CONTACT 3M FOR MORE INFORMATION.

15.3. CHEMICAL INVENTORIES:

THE COMPONENTS OF THIS PRODUCT ARE IN COMPLIANCE WITH THE CHEMICAL NOTIFICATION REQUIREMENTS OF TSCA.

CONTACT 3M FOR MORE INFORMATION.

15.4. INTERNATIONAL REGULATIONS: CONTACT 3M FOR MORE INFORMATION.

THIS SDS HAS BEEN PREPARED TO MEET THE U.S. OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200.

SECTION 16: OTHER INFORMATION

NFPA HAZARD CLASSIFICATION:

HEALTH	2
FLAMMABILITY	3
INSTABILITY	0
SPECIAL HAZARDS	NONE

AEROSOL STORAGE CODE: 3

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARD RATINGS ARE DESIGNED FOR USE BY EMERGENCY RESPONSE PERSONNEL TO ADDRESS THE HAZARDS THAT ARE PRESENTED BY SHORT-TERM, ACUTE EXPOSURE TO A MATERIAL UNDER CONDITIONS OF FIRE, SPILL, OR SIMILAR EMERGENCIES. HAZARD RATINGS ARE PRIMARILY BASED ON THE INHERENT PHYSICAL AND TOXIC PROPERTIES OF THE MATERIAL BUT ALSO INCLUDE THE TOXIC PROPERTIES OF COMBUSTION OR DECOMPOSITION PRODUCTS THAT ARE KNOWN TO BE GENERATED IN SIGNIFICANT QUANTITIES.

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