Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the Industrial Safety and Health Law, 39-1 and 41

SECTION 1: Identification

1.1. Product identifier
Premium K-70+

Product Identification Numbers
WX-4000-5955-5

MSDS No:AA00437-0000040111

1.2. Recommended use and restrictions on use

Recommended use
industrial use only, anti-corrosion and lubricant aerosol

1.3. Supplier's details

Company:	3M Korea
ADDRESS:	19F, 82, Uisadang-daero, Yeongdeungpo-gu, Seoul, 150-705, Korea
Telephone:	82-2-3771-4114
Website:	www.3m.com/kr
Emergency Telephone:	82-80-033-4114

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture
Flammable Aerosol: Category 1.
Specific Target Organ Toxicity (single exposure): Category 1.
Specific Target Organ Toxicity (single exposure): Category 3.
Aspiration Hazard: Category 1.
Chronic Aquatic Toxicity: Category 2.

2.2. Label elements
SIGNAL WORD
Danger

Symbols
Flame |Exclamation mark |Health Hazard |Environment |

Pictograms

HAZARD STATEMENTS

H222	Extremely flammable aerosol.
H229	Pressurized container: may burst if heated.
H336	May cause drowsiness or dizziness.
H304	May be fatal if swallowed and enters airways.
H370	Causes damage to organs: cardiovascular system.
H411	Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

Prevention:

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.

Response:

P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308 + P311	IF exposed or concerned: Call a POISON CENTER or doctor/physician.
P331	Do NOT induce vomiting.
P391	Collect spillage.

Storage:

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Disposal:

P501	Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

2.3. Other hazards

Intentional misuse by deliberately concentrating and inhaling contents can be harmful or fatal. May displace oxygen and cause rapid suffocation.

SECTION 3: Composition/information on ingredients

This material is a mixture.

Ingredient	Common Name	Identifier(s)	% by Wt
Hydrotreated Light Petroleum Distillates	Not Available	(CAS-No.) 64742-47-8 (KE-No.) KE-12550	33 - 43
Butane	N-BUTANE	(CAS-No.) 106-97-8 (KE-No.) KE-03751	30 - 40
Propane	PROPYL HYDRIDE	(CAS-No.) 74-98-6 (KE-No.) KE-29258	10 - 20
Petroleum Distillates	Not Available	(CAS-No.) 64742-55-8 (KE-No.) KE-12553	1 - 10

All composition of the product, excluding the listed components in the SDS do not fall under the harmful factors classification standards under K-OSHA.

SECTION 4: First aid measures

4.1. Description of first aid measures

Eye Contact:
Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

Skin Contact:
Wash with soap and water. If signs/symptoms develop, get medical attention.

Inhalation:
Remove person to fresh air. 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
No critical symptoms or effects. 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
No special protective actions for fire-fighters are anticipated.

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.

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. Close cylinder. Cover spill area with a fire-extinguishing foam. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
For industrial/occupational use only. Not for consumer sale or use. 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 50°C/122°F. Store away from heat. 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	
Butane	106-97-8	Korea OELs	TWA(8 hours):800 ppm	
Natural gas	106-97-8	ACGIH	Limit value not established:	simple asphyxiant
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
Kerosine (petroleum)	64742-47-8	ACGIH	TWA(as total hydrocarbon vapor, non-aerosol):200 mg/m3	A3: Confirmed animal carcin., SKIN
Propane	74-98-6	ACGIH	Limit value not established:	simple asphyxiant

ACGIH : American Conference of Governmental Industrial Hygienists
AIHA : American Industrial Hygiene Association
CMRG : Chemical Manufacturer's Recommended Guidelines
Korea OELs : Korea. Standards for Exposure to Chemical Substances and Physically Hazardous Factors
TWA: Time-Weighted-Average
STEL: Short Term Exposure Limit
CEIL: Ceiling

8.2. 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.

8.3. 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

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. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.
Gloves made from the following material(s) are recommended: Polymer laminate

Body protection
None required.

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 air-purifying respirator suitable for organic vapors and particulates
Half facepiece or full facepiece supplied-air respirator

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

Physical state	Liquid
Specific Physical Form:	Aerosol
Color	Colorless
Odor	Solvent
Odor threshold	*No Data Available*
pH	*No Data Available*
Melting point/Freezing point	*No Data Available*
Boiling point/Initial boiling point/Boiling range	100 ºC [*Test Method:*Estimated]
Flash Point	-8.3 ºC [*Test Method:*Closed Cup]
Evaporation rate	*No Data Available*

Flammability	Flammable Aerosol: Category 1.
Flammable Limits(LEL)	*No Data Available*
Flammable Limits(UEL)	*No Data Available*
Vapor Pressure	500,000 - 600,000 Pa [@ 35 ºC]
Vapor Density and/or Relative Vapor Density	*No Data Available*
Density	*No Data Available*
Relative Density	0.7 - 0.74 [*Ref Std:*WATER=1]
Water solubility	*No Data Available*
Solubility- non-water	*No Data Available*
Partition coefficient: n-octanol/ water	*No Data Available*
Autoignition temperature	*No Data Available*
Decomposition temperature	*No Data Available*
Kinematic Viscosity	*No Data Available*
Volatile Organic Compounds	*No Data Available*
Percent volatile	*No Data Available*
VOC Less H2O & Exempt Solvents	*No Data Available*
Molecular weight	*Not Applicable*

Particle Characteristics	*Not Applicable*

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
Avoid shock or friction.
Heat
High shear and high temperature conditions
Sparks and/or flames
Temperatures above the boiling point

10.5. Incompatible materials
Combustibles

10.6. Hazardous decomposition products

Substance	**Condition**
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:
May be harmful if inhaled. Simple Asphyxiation: Signs/symptoms may include increased heart rate, rapid respirations, drowsiness, headache, incoordination, altered judgement, 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:
May be harmful in contact with skin.
Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness.

Eye Contact:
Sprayed material may cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

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.

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 >2,000 - ≤5,000 mg/kg
Overall product	Inhalation-Dust/Mist(4 hr)		No data available; calculated ATE >5 - ≤12.5 mg/l
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Hydrotreated Light Petroleum Distillates	Inhalation-Vapor	Professional judgement	LC50 estimated to be 20 - 50 mg/l
Hydrotreated Light Petroleum Distillates	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 3 mg/l

Hydrotreated Light Petroleum Distillates	Ingestion	Rat	LD50 > 5,000 mg/kg
Hydrotreated Light Petroleum Distillates	Dermal	similar compounds	LD50 > 2,000 mg/kg
Butane	Inhalation-Gas (4 hours)	Rat	LC50 277,000 ppm
Propane	Inhalation-Gas (4 hours)	Rat	LC50 > 200,000 ppm
Petroleum Distillates	Dermal	similar compounds	LD50 > 2,000 mg/kg
Petroleum Distillates	Inhalation-Dust/Mist (4 hours)	similar compounds	LC50 > 5.53 mg/l
Petroleum Distillates	Ingestion	similar compounds	LD50 > 5,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Overall product	N/A	Data not available or insufficient for classification
Hydrotreated Light Petroleum Distillates	Rabbit	Mild irritant
Butane	Professional judgement	No significant irritation
Propane	Rabbit	Minimal irritation
Petroleum Distillates	similar compounds	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
Overall product	N/A	Data not available or insufficient for classification
Hydrotreated Light Petroleum Distillates	Rabbit	Mild irritant
Butane	Rabbit	No significant irritation
Propane	Rabbit	Mild irritant
Petroleum Distillates	similar compounds	No significant irritation

Skin Sensitization

Name	Species	Value
Overall product	N/A	Data not available or insufficient for classification
Hydrotreated Light Petroleum Distillates	Guinea pig	Not classified
Butane	N/A	Data not available or insufficient for classification
Propane	N/A	Data not available or insufficient for classification
Petroleum Distillates	similar compounds	Not classified

Photosensitization

Name	Species	Value
Overall product	N/A	Data not available or insufficient for classification
Hydrotreated Light Petroleum Distillates	N/A	Data not available or insufficient for classification
Butane	N/A	Data not available or insufficient for classification
Propane	N/A	Data not available or insufficient for classification

Petroleum Distillates	N/A	Data not available or insufficient for classification

Respiratory Sensitization

Name	Species	Value
Overall product	N/A	Data not available or insufficient for classification
Hydrotreated Light Petroleum Distillates	N/A	Data not available or insufficient for classification
Butane	N/A	Data not available or insufficient for classification
Propane	N/A	Data not available or insufficient for classification
Petroleum Distillates	N/A	Data not available or insufficient for classification

Germ Cell Mutagenicity

Name	Route	Value
Overall product	N/A	Data not available or insufficient for classification
Hydrotreated Light Petroleum Distillates	In Vitro	Not mutagenic
Butane	In Vitro	Not mutagenic
Propane	In Vitro	Not mutagenic
Petroleum Distillates	In Vitro	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
Overall product	N/A	N/A	Data not available or insufficient for classification
Hydrotreated Light Petroleum Distillates	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
Butane	N/A	N/A	Data not available or insufficient for classification
Propane	N/A	N/A	Data not available or insufficient for classification
Petroleum Distillates	N/A	N/A	Data not available or insufficient for classification

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
Overall product	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Hydrotreated Light Petroleum Distillates	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Butane	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Propane	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Petroleum Distillates	N/A	Data not available or insufficient for classification	N/A	N/A	N/A

Lactation

Name	Route	Species	Value
Overall product	N/A	N/A	Data not available or insufficient for classification
Hydrotreated Light Petroleum Distillates	N/A	N/A	Data not available or insufficient for classification
Butane	N/A	N/A	Data not available or insufficient for classification
Propane	N/A	N/A	Data not available or insufficient for classification
Petroleum Distillates	N/A	N/A	Data not available or insufficient for classification

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Overall product	N/A	N/A | N/A	Data not available or insufficient for classification	N/A	N/A	0
Hydrotreated Light Petroleum Distillates	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human and	NOAEL Not available	N/A

				animal		
Hydrotreated Light Petroleum Distillates	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	N/A
Hydrotreated Light Petroleum Distillates	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professional judgement	NOAEL Notavailable	N/A
Butane	Inhalation	cardiac sensitization	Causes damage to organs	Human	NOAEL Not available	N/A
Butane	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human and animal	NOAEL Not available	N/A
Butane	Inhalation	heart	Not classified	Dog	NOAEL 5,000 ppm	25 minutes
Butane	Inhalation	respiratory irritation	Not classified	Rabbit	NOAEL Not available	N/A
Propane	Inhalation	cardiac sensitization	Causes damage to organs	Human	NOAEL Not available	N/A
Propane	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	N/A
Propane	Inhalation	respiratory irritation	Not classified	Human	NOAEL Not available	N/A
Petroleum Distillates	N/A	N/A	Data not available or insufficient for classification	N/A	N/A	0

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Overall product	N/A	N/A	Data not available or insufficient for classification	N/A	N/A	0
Hydrotreated Light Petroleum Distillates	N/A	N/A	Data not available or insufficient for classification	N/A	N/A	0
Butane	Inhalation	kidney and/or bladder | blood	Not classified	Rat	NOAEL 4,489 ppm	90 days
Propane	N/A	N/A	Data not available or insufficient for classification	N/A	N/A	0
Petroleum Distillates	N/A	N/A	Data not available or insufficient for classification	N/A	N/A	0

Aspiration Hazard

Name	Value
Overall product	Data not available or insufficient for classification
Hydrotreated Light Petroleum Distillates	Aspiration hazard
Butane	Data not available or insufficient for classification
Propane	Data not available or insufficient for classification
Petroleum Distillates	Aspiration hazard

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

SECTION 12: Ecological 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. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labeling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

12.1. Toxicity

Acute aquatic hazard:

Not acutely toxic to aquatic life by GHS criteria.

Chronic aquatic hazard:
GHS Chronic 2: Toxic to aquatic life with long lasting effects

Material	Organism	Type	Exposure	Test Endpoint	Test Result
Overall product	N/A	Data not available or insufficient for classification	N/A	N/A	N/A

Material	Cas #	Organism	Type	Exposure	Test Endpoint	Test Result
Butane	106-97-8	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Hydrotreated Light Petroleum Distillates	64742-47-8	Green algae	Estimated	72 hours	EC50	1 mg/l
Hydrotreated Light Petroleum Distillates	64742-47-8	Green algae	Estimated	72 hours	NOEL	1 mg/l
Hydrotreated Light Petroleum Distillates	64742-47-8	Rainbow Trout	Estimated	96 hours	LL50	2 mg/l
Hydrotreated Light Petroleum Distillates	64742-47-8	Water flea	Estimated	21 days	NOEL	0.48 mg/l
Hydrotreated Light Petroleum Distillates	64742-47-8	Water flea	Estimated	48 hours	EL50	1.4 mg/l
Petroleum Distillates	64742-55-8	Fathead Minnow	Estimated	96 hours	LL50	>100 mg/l
Petroleum Distillates	64742-55-8	Green algae	Estimated	72 hours	NOEL	100 mg/l
Petroleum Distillates	64742-55-8	Water flea	Estimated	21 days	NOEC	10 mg/l
Petroleum Distillates	64742-55-8	Water flea	Estimated	48 hours	EL50	>100 mg/l
Propane	74-98-6	N/A	Data not available or insufficient for classification	N/A	N/A	N/A

12.2. Persistence and degradability

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
Overall product	None	DATA not available or insufficient for	N/A	N/A	N/A	N/A

Butane	106-97-8	Experimental Photolysis	N/A	Photolytic half-life (in air)	12.3 days (t 1/2)	N/A
Hydrotreated Light Petroleum Distillates	64742-47-8	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Petroleum Distillates	64742-55-8	Estimated Biodegradation	28 days	Carbon dioxide evolution	22 %CO2 evolution/THCO2 evolution	OECD 301B - Mod. Sturm or CO2
Propane	74-98-6	Experimental Photolysis	N/A	Photolytic half-life (in air)	27.5 days (t 1/2)	N/A

12.3. Bioaccumulative potential

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
Overall product	None	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Butane	106-97-8	Experimental Bioconcentration	N/A	Log of Octanol/H2O part. coeff	2.89	N/A
Hydrotreated Light Petroleum Distillates	64742-47-8	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Petroleum Distillates	64742-55-8	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Propane	74-98-6	Experimental Bioconcentration	N/A	Log of Octanol/H2O part. coeff	2.36	N/A

12.4. Mobility in soil

Please contact manufacturer for more details

12.5 Other adverse effects

Material	CAS No.	Ozone Depletion Potential	Global Warming Potential
Overall product	None	Data not available or insufficient for classification	Data not available or insufficient for classification
Butane	106-97-8	Data not available or insufficient for classification	Data not available or insufficient for classification
Hydrotreated Light Petroleum Distillates	64742-47-8	Data not available or insufficient for classification	Data not available or insufficient for classification
Petroleum Distillates	64742-55-8	Data not available or insufficient for	Data not available or insufficient for classification

		classification	
Propane	74-98-6	Data not available or insufficient for classification	Data not available or insufficient for classification

SECTION 13: Disposal considerations

13.1. Disposal methods
Dispose of contents/ container in accordance with the local/regional/national/international regulations.

13.2. Disposal Considerations (including disposal method for contaminated drums, barrels, or other packagings) :
Incinerate in a permitted waste incineration facility. Facility must be capable of handling aerosol cans. As a disposal alternative, utilize an acceptable permitted waste disposal facility. The facility should be equipped to handle gaseous waste. 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.

SECTION 14: Transport Information

14.1 International Regulations

UN No.: UN1950
UN Proper shipping name: AEROSOLS
Transportation Class (IMO): 2.1 Flammable gases
Transportation Class (IATA): 2.1 Flammable gases
Packing Group: Not applicable
Marine pollutant: No
User informed transportation or shipping and required safety plan: Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Global inventory status
Contact 3M for more information. The components of this material are in compliance with the provisions of the Korea Chemical Control Act. Certain restrictions may apply. Contact the selling division for additional information.
Contact 3M Korea for more information.

This product may contain component(s) that are regulated by the following:

Occupational Safety and Health Act

Prohibited substance(s):Not Applicable
Substance(s) subject to management:Not Applicable
Substance(s) that require a permit:Not Applicable
Special management substance(s):Not Applicable
Workspace measurement substance(s):Hydrotreated Light Petroleum Distillates(64742-47-8)
Substance(s) that require special medical examination:Hydrotreated Light Petroleum Distillates(64742-47-8), Petroleum Distillates(64742-55-8)
Substance(s) with exposure standards:Butane(106-97-8)
Substance(s) that require observance of Permissible Level of Harmful Factor:Not Applicable
PSM reporting substance(s):Butane(106-97-8), Propane(74-98-6)

Chemical Substances Control Act

Toxic substance(s):Not Applicable
Chemical(s) requiring a permission:Not Applicable
Restricted substance(s):Not Applicable
Prohibited substance(s):Not Applicable
Substance(s) requiring preparation for accidents:Not Applicable

Act on the Safety Control of Hazardous Substances
Act on the Safety Control of Hazardous Substances:1th petroleum non-aquas liquid in 4th flammable liquid (threshold: 200 L, Danger category: II, Signal word: Caution on contact with sources of ignition)

Wastes Control Act
Waste Control Act: This product is classified as designated waste

Other domestic and abroad regulations:
Not Applicable

SECTION 16: Other information

16.1. References:
- 3M test data
- ACGIH(American Conference of Governmental Industrial Hygienists)
- Agency for Toxic Substances and Disease Registry
- American Industrial Hygiene Association
- Canadian Centre for Occupational Health and Safety
- ChemIDplus(Chemical Identification/Dictionary)
- CICADs(Concise International Chemical Assessment Documents)
- CRC Handbook
- DOT(Department of Transportation classifications)
- e-Chem Portal
- ECOSAR(Ecological Structure Activity Relationships)
- EHC(Environmental Health Criteria) Monographs
- Environmental Protection Agency
- ERG(emergency response guidebook)
- ESIS(European chemical Substances Information System)
- EU Proposals for Classification
- EU RAR(Risk Assessment Report)
- HSDB(Hazardous Substances Data Bank)
- IARC(International Agency for Research on Cancer) - Summaries and Evaluations
- ICSCs(International Chemical Safety Cards)
- IPCS INCHEM(International Programme on Chemical Safety)
- IRIS(Integrated Risk Information System)
- IUCLID(International Uniform Chemical Information Database)
- JECFA(Joint Expert Committee on Food Additives) - Monographs and Evaluations
- KOSHA
- NCIS(National Chemicals Information System)
- NIOSH(National Institute of Occupational Safety and Health) Pocket guide
- NITE (National Institute of Technology and Evaluation)
- NLM(National Library of Medicine)
- NTP(National Toxicity Program)
- Patty’s Toxicology
- PDs(Pesticide Documents)
- PIMs, 1989-2002(Poisons Information Monographs Archive)
- Pubchem

- QSAR(Quantitative(Qualitative) Structure Activity Relationship)
- REACH(ECHA Registered Substance)
- SIDS(Screening Information Data Set) for High Production Volume Chemicals
- Supplier test data/classification
- Toxic Substances Control Act Test Submissions
- Toxicology Excellence for Risk Assessment
- UN RTDG(Recommendations on the Transport of Dangerous Goods)

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