SAFETY DATA SHEET

1. Product and Company Identification

PRODUCT NUMBER: 1767

PRODUCT NAME: KOTE

PRODUCT DESCRIPTION: Aerosol Chain and Cable Dressing

COMPANY INFORMATION: **PRO CHEM, INC.**
1475 Bluegrass Lakes Parkway
Alpharetta, GA 30004

COMPANY PHONE: 1-800-241-8180

EMERGENCY TELEPHONE: 1-800-241-8180

INFOTRAC: 1-800-535-5053

2. Hazards Identification

GHS CLASSIFICATION:
Physical Hazards:
Flammable Aerosols: Category 1
Health Hazards:
Serious Eye Damage/Eye Irritation: Category 2A
Carcinogenicity: Category 2
Specific Target Organ Toxicity: Category 1
Repeated Exposure (Nervous System)

SIGNAL WORD:
DANGER

SYMBOL:

HAZARD STATEMENTS:
Extremely flammable aerosol. Causes serious eye irritation. Suspected of causing cancer. Causes damage to organs through prolonged or repeated exposure.

PRECAUTIONARY STATEMENTS:
Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product.
Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF exposed or concerned: Get medical advice/attention.
Storage: Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store locked up.
Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

HAZARDS NOT OTHERWISE SPECIFIED:
None.

3. Composition / Information on Ingredients

CHEMICAL NAME	CAS	Concentration % by Weight
Distillates (petroleum), hydrotreated heavy paraffinic <3% DMSO	64742-54-7	50 - <100%
Propane	74-98-6	10 - <20%
Stoddard solvent	8052-41-3	5 - <10%
Solvent Naphtha (Petroleum), Medium Aliphatic	64742-88-7	1 - <5%
Amides, coco, N,N-bis(hydroxyethyl)	68603-42-9	1 - <3%
Ethanol, 2,2'-iminobis-	11-42-2	0.1 - <1%
Other components below reportable levels		

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.
The exact concentration has been withheld as a trade secret.

4. First Aid Measures

DESCRIPTION OF NECESSARY FIRST-AID MEASURES
EYES: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
SKIN: Wash skin thoroughly with soap and water. If skin irritation occurs: Get medical advice/attention.
INHALATION:
Move to fresh air.
INGESTION:
Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
PERSONAL PROTECTION FOR FIRST-AID RESPONDERS:
Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:
Symptoms: No data available.
Hazards: No data available.
INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:
Treatment: Symptoms may be delayed.

5. Fire-Fighting Measures

SUITABLE FIRE EXTINGUISHING MEDIA:

Use fire-extinguishing media appropriate for surrounding materials.

UNSUITABLE FIRE EXTINGUISHING MEDIA:

Do not use water jet as an extinguisher, as this will spread the fire.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

Vapors may travel considerable distance to a source of ignition and flash back.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots and in enclosed spaces, SCBA.

SPECIFIC FIRE-FIGHTING METHODS:

No data available.

GENERAL FIRE HAZARDS:

Use water spray to keep fire-exposed containers cool. Fight fire from a protected location. Move containers from fire area if you can do so without risk.

6. Accidental Release Measures

PERSONAL PRECAUTIONS:

Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind.

ACCIDENTAL RELEASE MEASURES:

Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEAN UP:

Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.

ENVIRONMENTAL PRECAUTIONS

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer.

7. Handling and Storage

TECHNICAL MEASURES (E.G. LOCAL AND GENERAL VENTILATION):

No data available.

SAFE HANDLING:

Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Avoid contact with eyes. Wash hands thoroughly after handling. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use.

CONTACT AVOIDANCE MEASURES:

No data available.

SAFE STORAGE AND INCOMPATIBILITIES:

Store locked up. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Aerosol Level 3

Safe Packaging Materials: No data available.

Storage Temperature: No data available.

8. Exposure Controls / Personal Protection

CONTROL PARAMETERS:

Occupational exposure limits:

Chemical Identity:	Type	Exposure Limit Values		Source
Distillates (petroleum), hydrotreated heavy paraffinic <3% DMSO - Inhalable fraction.	TWA	5 mg/m³		US. ACGIH Threshold Limit Values, as amended
Distillates (petroleum), hydrotreated heavy paraffinic <3% DMSO - Mist.	TWA	5 mg/m³		US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	STEL	10 mg/m³		US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	PEL	5 mg/m³		US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	REL	5 mg/m³		US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Propane	REL	1,000 ppm	1,800 mg/m³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	PEL	1,000 ppm	1,800 mg/m³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	TWA	1,000 ppm	1,800 mg/m³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Stoddard solvent	TWA	100 ppm	523 mg/m³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	TWA	100 ppm		US. ACGIH Threshold Limit Values, as amended
	REL		350 mg/m³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	Ceil_Time		1,800 mg/m³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	PEL	500 ppm	2,900 mg/m³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
Ethanol, 2,2'-iminobis-	REL	3 ppm	15 mg/m³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	TWA	3 ppm	15 mg/m³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Ethanol, 2,2'-iminobis- - Inhalable fraction and vapor.	TWA		1 mg/m³	US. ACGIH Threshold Limit Values, as amended
Benzene, 1,2,4-trimethyl-	TWA	25 ppm		US. ACGIH Threshold Limit Values, as amended
	TWA	25 ppm	125 mg/m³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	REL	25 ppm	125 mg/m³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended

Distillates (petroleum), hydrotreated heavy naphthenic	TWA	400 ppm	1,600 mg/m³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	PEL	500 ppm	2,000 mg/m³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
Distillates (petroleum), hydrotreated heavy naphthenic - Mist.	REL		5 mg/m³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	STEL		10 mg/m³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	PEL		5 mg/m³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	TWA		5 mg/m³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Distillates (petroleum), hydrotreated heavy naphthenic	Ceil_Time		1,800 mg/m³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Distillates (petroleum), hydrotreated heavy naphthenic - Inhalable fraction.	TWA		5 mg/m³	US. ACGIH Threshold Limit Values, as amended
Distillates (petroleum), hydrotreated heavy naphthenic	REL		350 mg/m³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Nonane	TWA	200 ppm	1,050 mg/m³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	REL	200 ppm	1,050 mg/m³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	TWA	200 ppm		US. ACGIH Threshold Limit Values, as amended
Molybdenum sulfide (MoS2) - Respirable fraction. - as Mo	TWA		3 mg/m³	US. ACGIH Threshold Limit Values, as amended
Molybdenum sulfide (MoS2) - Inhalable fraction. - as Mo	TWA		10 mg/m³	US. ACGIH Threshold Limit Values, as amended
Molybdenum sulfide (MoS2) - Total dust. - as Mo	PEL		15 mg/m³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	TWA		10 mg/m³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Graphite - Total dust.	PEL		15 mg/m³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
Graphite - Respirable.	REL		2.5 mg/m³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Graphite - Respirable fraction.	TWA		2 mg/m³	US. ACGIH Threshold Limit Values, as amended
Graphite	TWA	15 millions of particles per cubic foot of air		US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
Graphite - Respirable fraction.	PEL		5 mg/m³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
Graphite - Respirable dust.	TWA		2.5 mg/m³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Distillates (petroleum), solvent-refined heavy paraffinic		400 ppm	1,600 mg/m³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	PEL	500 ppm	2,000 mg/m³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
Distillates (petroleum), solvent-refined heavy paraffinic - Mist.	REL		5 mg/m³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	TWA		5 mg/m³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	STEL		10 mg/m³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	PEL		5 mg/m³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
Distillates (petroleum), solvent-refined heavy paraffinic - Inhalable fraction.	TWA		5 mg/m³	US. ACGIH Threshold Limit Values, as amended
Distillates (petroleum), solvent-refined heavy paraffinic	REL		350 mg/m³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	Ceil_Time		1,800 mg/m³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Naphthalene	STEL	15 ppm	75 mg/m³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	REL	10 ppm	50 mg/m³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	PEL	10 ppm	50 mg/m³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	TWA	10 ppm	50 mg/m³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	TWA	10 ppm		US. ACGIH Threshold Limit Values, as amended
	STEL	15 ppm	75 mg/m³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Benzene, ethyl-	STEL	125 ppm	545 mg/m³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	REL	100 ppm	435 mg/m³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	PEL	100 ppm	435 mg/m³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	STEL	125 ppm	545 mg/m³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	TWA	100 ppm	435 mg/m³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	TWA	20 ppm		US. ACGIH Threshold Limit Values, as amended
Benzene, dimethyl-	TWA	100 ppm	435 mg/m³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	TWA	100 ppm		US. ACGIH Threshold Limit Values, as amended
	PEL	100 ppm	435 mg/m³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	STEL	150 ppm	655 mg/m³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	STEL	150 ppm		US. ACGIH Threshold Limit Values, as amended
	STEL	150 ppm	655 mg/m³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	REL	100 ppm	435 mg/m³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended

BIOLOGICAL LIMIT VALUE:

Chemical Identity	Exposure Limit Values	Source
Benzene, ethyl- (Sum of mandelic acid and phenylglyoxylic acid: Sampling time: End of shift.)	0.15 g/g (Creatinine in urine)	ACGIH BEL
Benzene, dimethyl- (Methylhippuric acids: Sampling time: End of shift.)	1.5 g/g (Creatinine in urine)	ACGIH BEL

EXPOSURE GUIDELINES:

Ethanol, 2,2'-iminobis-	US. ACGIH Threshold Limit Values, as amended	Can be absorbed through the skin.
Naphthalene	US. ACGIH Threshold Limit Values, as amended	Can be absorbed through the skin.

APPROPRIATE ENGINEERING CONTROLS:

No data available.

INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT:

Eye/Face Protection: Wear safety glasses with side shields (or goggles).
Skin Protection: No data available.
Hand Protection: No data available.
Skin and Body Protection: No data available.
Respiratory Protection: In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.
General Hygiene Measures: Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Avoid contact with eyes. When using do not smoke.

9. Physical & Chemical Properties

Physical State:	Liquid.	**Flammability (solid/gas):**	No data available.
Form:	Spray Aerosol.	**Explosive Limit – lower (%):**	No data available.
Color:	No data available.	**Explosive Limit – upper (%):**	No data available.
Odor:	No data available.	**Vapor Pressure:**	Estimated 5,516 - 6,205 hPa
Odor Threshold:	No data available.	**Vapor Density (air=1):**	No data available.
pH:	No data available.	**Density:**	No data available.
Freezing Point:	No data available.	**Relative Density:**	No data available.
Boiling Point:	152.62°C	**Solubility (water):**	No data available.
Partition Coeff (n-octanol/water):	No data available.	**Solubility (other):**	No data available.
Kinematic Viscosity:	No data available.	**Self-ignition Temperature:**	No data available.
Dynamic Viscosity:	No data available.	**Decomposition Temperature:**	No data available.
Evaporation Rate:	No data available.	**Flash Point:**	-104.4°C
Oxidizing Properties:	No data available.	**Explosive Properties:**	No data available.

10. Stability & Reactivity Information

REACTIVITY:

No data available.

CHEMICAL STABILITY:

Material is stable under normal conditions.

POSSIBILITY OF HAZARDOUS REACTIONS:

No data available.

INCOMPATIBLE MATERIALS:

No data available.

CONDITIONS TO AVOID:

Avoid heat or contamination.

HAZARDOUS DECOMPOSITION PRODUCTS:

No data available.

11. Toxicological Information

PRIMARY ROUTE OF ENTRY:

Eyes: No data available.
Skin: No data available.
Inhalation: No data available.
Ingestion: No data available.

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS:

Eyes: No data available.
Skin: No data available.
Inhalation: No data available.
Ingestion: No data available.

ACUTE TOXICITY:

Oral Product: Not classified for acute toxicity based on available data.
Dermal Product: Not classified for acute toxicity based on available data.
Inhalation Product: Not classified for acute toxicity based on available data.

REPEATED DOSE TOXICITY:

No data available.

COMPONENTS	
Distillates (petroleum), hydrotreated heavy paraffinic <3% DMSO	NOAEL (Rat(Female, Male), Inhalation): > 980 mg/m3 Inhalation Experimental result, Key study LOAEL (Mouse(Male), Dermal, 24 Months): 100 mg/kg Dermal Experimental result, Key study NOAEL (Rat(Female, Male), Dermal, 13 Weeks): >= 2,000 mg/kg Dermal Experimental result, Key study
Propane	NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 ppm(m) Inhalation Experimental result, Key study

	LOAEL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m) Inhalation Experimental result, Key study
Solvent naphtha (petroleum), medium aliph.	LOAEL (Rat(Female), Oral, 70 - 147 d): 750 mg/kg (Rat(Female), Oral, 70 - 147 d): 750 mg/kg Oral Experimental result, Key study LOAEL (Rat(Female, Male), Inhalation - vapor): 0.024 mg/l (Target Organ(s): Nervous System) Inhalation Experimental result, Key study LOAEL (Rabbit(Female, Male), Dermal): 200 mg/kg (Rabbit(Female, Male), Dermal): 200 mg/kg Dermal Experimental result, Supporting study
Ethanol, 2,2'-iminobis-	LOAEL (Rat(Female), Oral, 13 Weeks): 14 mg/kg Oral Experimental result, Key study LOAEL (Rat(Female, Male), Dermal, 13 Weeks): 32 mg/kg Dermal Experimental result, Key study NOAEL (Rat(Female, Male), Inhalation): 3 mg/m3 Inhalation Experimental result, Key study

SKIN CORROSION/IRRITATION:

Product: No data available.

COMPONENTS	
Distillates (petroleum), hydrotreated heavy paraffinic <3% DMSO	in vivo (Rabbit): Not irritant
Solvent naphtha (petroleum), medium aliph.	Assessment Non-Irritating
Amides, coco, N,N-bis(hydroxyethyl)	Assessment Irritating.
Ethanol, 2,2'-iminobis-	Irritating.

SERIOUS EYE DAMAGE/IRRITATION:

Product: No data available.

COMPONENTS	
Distillates (petroleum), hydrotreated heavy paraffinic <3% DMSO	Rabbit, 48 hrs: Not irritating
Solvent naphtha (petroleum), medium aliph.	Rabbit, 24 - 72 hrs: Not irritating

RESPIRATORY OR SKIN SENSITIZATION:

Product: No data available.

COMPONENTS	
Distillates (petroleum), hydrotreated heavy paraffinic <3% DMSO	Skin sensitization:, in vivo (Guinea pig): Non sensitising
Solvent naphtha (petroleum), medium aliph.	Skin sensitization:, in vivo (Guinea pig): Non sensitising
Amides, coco, N,N-bis(hydroxyethyl)	Not sensitising
Ethanol, 2,2'-iminobis-	Skin sensitization:, in vivo (Guinea pig): Non sensitising

CARCINOGENICITY:

Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Amides, coco, N,N-bis(hydroxyethyl)	Overall evaluation: 2B. Possibly carcinogenic to humans.
Ethanol, 2,2'-iminobis-	Overall evaluation: 2B. Possibly carcinogenic to humans.

US. National Toxicology Program (NTP) Report on Carcinogens:

Amides, coco, N,N-bis(hydroxyethyl)	Overall evaluation: 2B. Possibly carcinogenic to humans.
Ethanol, 2,2'-iminobis-	Overall evaluation: 2B. Possibly carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) as amended:

No carcinogenic components identified.

GERM CELL MUTAGENICITY:

In vitro Product: No data available.

In vivo Product: No data available.

REPRODUCTIVE TOXICITY:

Product: No data available.

SPECIFIC TARGET ORGAN TOXICITY (single exposure):

Product: No data available.

SPECIFIC TARGET ORGAN TOXICITY (repeated exposures):

Product: No data available.

Components:

Stoddard solvent	Nervous System - Category 1
Ethanol, 2,2'-iminobis-	Category 2

Target Organs:

Specific Target Organ Toxicity - Repeated Exposure: Nervous System

ASPIRATION HAZARD:

Product: No data available.

Components:

Stoddard solvent	May be fatal if swallowed and enters airways.
Solvent naphtha (petroleum), medium aliph.	May be fatal if swallowed and enters airways.

OTHER EFFECTS:

No data available.

12. Ecological Information

ECOTOXICITY:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Components:

Distillates (petroleum), hydrotreated heavy paraffinic <3% DMSO	LL 50 (Pimephales promelas, 96 h): > 100 mg/l Experimental result, Key study
Propane	LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study
Solvent naphtha (petroleum), medium aliph.	LL 50 (Oncorhynchus mykiss, 96 h): 2 - 5 mg/l Experimental result, Key study
Ethanol, 2,2'-iminobis-	LC 50 (Pimephales promelas, 96 h): 1,370 mg/l Experimental result, Key study

Aquatic Invertebrates:

Product: No data available.

Components:

Distillates (petroleum), hydrotreated heavy paraffinic <3% DMSO	EC 50 (Daphnia magna, 48 h): > 10,000 mg/l Experimental result, Key study
Solvent naphtha (petroleum), medium aliph.	EC 50 (Daphnia magna, 48 h): 1.4 mg/l Experimental result, Key study
Ethanol, 2,2'-iminobis-	EC 50 (Daphnia magna, 48 h): 55 mg/l Experimental result, Supporting study EC 50 (Ceriodaphnia dubia, 48 h): 30.1 mg/l Experimental result, Key study

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Components:

Distillates (petroleum), hydrotreated heavy paraffinic <3% DMSO	NOAEL (Oncorhynchus mykiss): >= 1,000 mg/l QSAR QSAR, Supporting study
Solvent naphtha (petroleum), medium aliph.	NOAEL (Oncorhynchus mykiss): 0.098 mg/l QSAR QSAR, Key study
Ethanol, 2,2'-iminobis-	NOAEL (Various): > 1 mg/l Estimated by calculation, Supporting study

Aquatic Invertebrates:

Product: No data available.

Components:

Distillates (petroleum), hydrotreated heavy paraffinic <3% DMSO	NOAEL (Daphnia magna): >= 1,000 mg/l Experimental result, Supporting study
Solvent naphtha (petroleum), medium aliph.	NOAEL (Daphnia magna): 0.48 mg/l Experimental result, Key study
Ethanol, 2,2'-iminobis-	NOAEL (Daphnia magna): 0.78 mg/l Experimental result, Key study

Toxicity to Aquatic Plants:

Product: No data available.

PERSISTENCE AND DEGRADABILITY:

Biodegradation Product: No data available.

Components:

Distillates (petroleum), hydrotreated heavy paraffinic <3% DMSO	2 - 8% (28 d) Detected in water. Experimental result, Supporting study 31% (28 d) Detected in water. Experimental result, Supporting study
Propane	100% (385.5 h) Detected in water. Experimental result, Key study 50% (3.19 d) Detected in water. QSAR, Weight of Evidence study
Solvent naphtha (petroleum), medium aliph.	61% Detected in water. Experimental result, Supporting study
Ethanol, 2,2'-iminobis-	93% (28 d) Detected in water. Experimental result, Key study

BOD/COD RATIO:

Product: No data available.

BIOACCUMULATIVE POTENTIAL:

Bioconcentration Factor (BCF): No data available.

Components:

Ethanol, 2,2'-iminobis-	Bioconcentration Factor (BCF): 9.2 Aquatic sediment Estimated by calculation, Weight of Evidence study

PARTITION COEFFICIENT N-OCTANOL / WATER (LOG KOW):

Product: No data available.

MOBILITY IN SOIL:

No data available.

Components:

Distillates (petroleum), hydrotreated heavy paraffinic <3% DMSO	No data available.
Propane	No data available.
Solvent naphtha (petroleum), medium aliph.	No data available.
Ethanol, 2,2'-iminobis-	No data available.

OTHER ADVERSE EFFECTS:
Harmful to aquatic organisms.

13. Disposal Consideration

DISPOSAL INSTRUCTIONS:
Discharge, treatment, or disposal may be subject to national, state or local laws.
CONTAMINATED PACKAGING:
No data available.

14. Transportation Information

DOT: **UN Number:** UN1950
UN Proper Shipping Name: Aerosols, flammable
Transport Hazard Class(es)
Class: 2.1
Label(s): -
EmS No.:
Packing Group: II
Special Precaution for User: Not regulated.

IATA: **UN Number:** UN1950
UN Proper Shipping Name: Aerosols, flammable
Transport Hazard Class(es)
Class: 2.1
Label(s): -
Packing Group: -
Special Precaution for User: Not regulated.
Other Information:
Passenger and cargo aircraft: Allowed. 203
Cargo aircraft only: Allowed. 203

IMDG: **UN Number:** UN1950
UN Proper Shipping Name: Aerosols, flammable
Transport Hazard Class(es)
Class: 2
Label(s): -
EmS No.:
Packing Group: -
Special Precaution for User: Not regulated.

15. Regulatory Information

US FEDERAL REGULATIONS:
Restrictions on use: Not known.
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D):
US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended
None present or none present in regulated quantities.
CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity
UNLISTED HAZARDOUS WASTES CHARACTERISTIC OF IGNITABILITY
Amides, coco, N,N-bis (hydroxyethyl)
DIETHANOLAMINE
RCRA HAZARDOUS WASTE NO. D001
NAPHTHALENE
ETHYLBENZENE
XYLENE (MIXED)

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT of 1986 (SARA):
Hazard Categories: Flammable aerosol, Serious Eye Damage/Eye Irritation, Carcinogenicity, Specific Target Organ Toxicity - Repeated Exposure
SARA 302 Extremely hazardous substance: Not listed.
SARA 311/312 Hazardous chemical: No.

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required
None present or none present in regulated quantities.
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):
Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

US. STATE REGULATIONS:
US. California Proposition 65: For more information go to www.P65Warnings.ca.gov.
US. New Jersey Worker and Community Right-to-Know Act:

Chemical Identity
Distillates (petroleum), hydrotreated heavy paraffinic <3% DMSO
Propane
Stoddard solvent
Amides, coco, N,N-bis(hydroxyethyl)

Distillates (petroleum), hydrotreated heavy naphthenic
Distillates (petroleum), solvent-refined heavy paraffinic

US. Massachusetts RTK - Substance List: No ingredient regulated by MA Right-to-Know Law present.

US. Pennsylvania RTK - Hazardous Substances:

Chemical Identity

Distillates (petroleum), hydrotreated heavy paraffinic <3% DMSO
Propane
Stoddard solvent

US. Rhode Island RTK: No ingredient regulated by RI Right-to-Know Law present.

INTERNATIONAL REGULATIONS:

Montreal Protocol: Amides, coco, N,N-bis(hydroxyethyl)
Stockholm Convention: Amides, coco, N,N-bis(hydroxyethyl)
Rotterdam Convention: Amides, coco, N,N-bis(hydroxyethyl)
Kyoto protocol

INVENTORY STATUS:

Australia AICS	On or in compliance with the inventory.
Canada DSL Inventory List	On or in compliance with the inventory.
EINECS, ELINCS or NLP	Not in compliance with the inventory.
Japan (ENCS) List	Not in compliance with the inventory.
Korea Existing Chemicals Inv. (KECI)	Not in compliance with the inventory.
Canada NDSL Inventory	Not in compliance with the inventory.
Philippines PICCS	On or in compliance with the inventory.
US TSCA Inventory	On or in compliance with the inventory.
New Zealand Inventory of Chemicals	On or in compliance with the inventory.
Japan ISHL Listing	Not in compliance with the inventory.
Japan Pharmacopoeia Listing	Not in compliance with the inventory.
Mexico INSQ	Not in compliance with the inventory.
Ontario Inventory	Not in compliance with the inventory.
Taiwan Chemical Substance Inventory	On or in compliance with the inventory.
China Inv. Existing Chemical Substances	On or in compliance with the inventory.

16. Other Information

DISCLAIMER:

To the best of our knowledge, information contained herein is accurate. However, there is no assumption of liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazard, which exists. The information contained in this SDS was obtained from current and reliable sources; however, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions or handling, storage and disposal of this product are beyond the control of the manufacturer, the manufacturer will not be responsible for loss, injury, or expense arising out of the products improper use. No warranty, expressed or inferred, regarding the product described in this SDS shall be created or inferred by any statement in this SDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product, which may not be covered by this SDS. The user is responsible for full compliance.