





SAFETY DATA SHEET

1. Product and Company Identification			
PRODUCT NUMBER:	1116	COMPANY PHONE:	1-800-241-8180
PRODUCT NAME:	SURE GRIP - BLACK	EMERGENCY TELEPHONE:	1-800-535-5053
PRODUCT DESCRIPTION:	Aerosol Anti-skid Epoxy Coating	INFOTRAC:	1-800-535-5053
COMPANY INFORMATION:	PRO CHEM, INC. 1475 Bluegrass Lakes Parkway Alpharetta, GA 30004		

2. Hazards Identification						
GHS CLASSIFICATION: Flammable Aerosols 1 H222: Extremely flammable aerosol. Pressurized Gas H280: Contains gas under pressure; may explode if heated. Eye Irritant 2A H319: Causes serious eye irritation. STOT SE 3 H336: May cause drowsiness or dizziness. STOT SE 2 H373: May cause damage to organs through prolonged or repeated exposure.	SIGNAL WORD: DANGER	SYMBOL:				
HAZARD STATEMENTS: Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes serious eye irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure.						
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. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Response: IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. If eye irritation persists: Get medical advice/attention. Storage: Store in a well-ventilated place. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations.						

3. Composition / Information on Ingredients		
Chemical Name	CAS	Concentration % by Weight
Acetone	67-64-1	25 - 50
Propane	74-98-6	10 - 15
n-butane	106-97-8	5 - 10
Xylene (mix)	1330-20-7	≥5 - <10
PM acetate	108-65-6	5 - 10
Methyl Isobutyl Ketone	108-10-1	≥5-<10
Calcium Carbonate	1317-65-3	1 - 5
Silicon Dioxide	112926-00-8	1 - 5
Ethyl Benzene	100-41-4	1 - 5
*Chemical characterization: Mixtures Chemical Description: This product is a mixture of the substances listed below with nonhazardous additions.		

4. First Aid Measures
EMERGENCY OVERVIEW EYES: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. SKIN: Remove contaminated clothing. Wash exposed area with soap and water. INHALATION: Supply fresh air; consult doctor in case of complaints. INGESTION: Rinse mouth with water. Do not induce vomiting. MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED: Dizziness. INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED: No further relevant information available.

5. Fire-Fighting Measures
SUITABLE FIRE EXTINGUISHING MEDIA: CO ₂ , extinguishing powder or water spray. Fight larger fires with water spray. SPECIFIC HAZARDS ARISING FROM THE CHEMICAL: Can form explosive gas-air mixtures. SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS: A respiratory protective device may be necessary.

6. Accidental Release Measures

PERSONAL PRECAUTIONS:

Use respiratory protective device against the effects of fumes/dust/aerosol.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP:

Absorb liquid components with liquid-binding material.

7. Handling and Storage

SAFE HANDLING:

Use only in well ventilated areas.

SAFE STORAGE AND INCOMPATIBILITIES:

Keep away from sources of heat and direct sunlight. Do not warehouse in subfreezing conditions. Store locked up.

8. Exposure Controls / Personal Protection

Components with Limit Values that Require Monitoring at the Workplace:

Components	Type	Value
Acetone (CAS 67-64-1)	PEL	Long-term value: 2400 mg/m ³ , 1000 ppm
	REL	Long-term value: 590 mg/m ³ , 250 ppm
	TLV	Short-term value: 1187 mg/m ³ , 500 ppm Long-term value: 594 mg/m ³ , 250 ppm BEI
Propane (CAS 74-98-6)	PEL	Long-term value: 1800 mg/m ³ , 1000 ppm
	REL	Long-term value: 1800 mg/m ³ , 1000 ppm
	TLV	refer to Appendix F in TLVs & BEIs book; D, EX
n-butane (106-97-8)	REL	Long-term value: 1900 mg/m ³ , 800 ppm
	TLV	Short-term value: 2370 mg/m ³ , 1000 ppm (EX)
Xylene (mix) (CAS 1330-20-7)	PEL	Long-term value: 435 mg/m ³ , 100 ppm
	REL	Short-term value: 655 mg/m ³ , 150 ppm
	TLV	Long-term value: 435 mg/m ³ , 100 ppm
		Short-term value: 651 mg/m ³ , 150 ppm
Acetate PM (108-65-6)	WEEL	Long-term value: 50 ppm
	Methyl Isobutyl Ketone (CAS 108-10-1)	PEL
REL		Short-term value: 300 mg/m ³ , 75 ppm
TLV		Long-term value: 205 mg/m ³ , 50 ppm Short-term value: 307 mg/m ³ , 75 ppm Long-term value: 82 mg/m ³ , 20 ppm BEI
Silicon Dioxide (112926-00-8)	PEL	(USA) 20mppcf or 80mg/m ³ /%SiO ₂
	REL	(USA) Long-term value: 6 mg/m ³
	TLV	See Pocket Guide App. C TLV withdrawn
Ethyl Benzene (CAS 100-41-4)	EL	Long-term value: 20 ppm IARC 2B
	PEL	Long-term value: 435 mg/m ³ , 100 ppm
	REL	Short-term value: 545 mg/m ³ , 125 ppm
	TLV	Long-term value: 435 mg/m ³ , 100 ppm Long-term value: 87 mg/m ³ , 20 ppm BEI

Ingredients with Biological Limit Values:

Acetone (CAS 67-64-1)	BEI	50 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific)
Xylene (mix) (CAS 1330-20-7)	BEI	1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids
Methyl Isobutyl Ketone (CAS 108-10-1)	BEI	1 mg/L Medium: urine Time: end of shift Parameter: MIBK
Ethyl Benzene (CAS 100-41-4)	BEI	0.7 g/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative) - Medium: end-exhaled air Time: not critical Parameter: Ethyl benzene (semi-quantitative)

PERSONAL PROTECTIVE EQUIPMENT:

Eye/Face Protection: Tightly sealed goggles.

Skin Protection: Hand protection: Nitrile gloves. The glove material must be impermeable and resistant to the substance.

Respiratory Protection: A respirator is generally not necessary when using this product outdoors or in large open areas. In cases where short and/or long term overexposure exists, a charcoal filter respirator should be worn. If you suspect overexposure conditions exist, please consult an authority on chemical hygiene.

General Hygiene Considerations: Immediately remove all soiled and contaminated clothing. Wash hands after use. Avoid contact with the eyes and skin. Do not eat or drink while working.

9. Physical & Chemical Properties

Appearance:	Aerosol.	Flammability(solid/gas):	Extremely flammable.
Odor:	Aromatic.	Explosive Limit-Lower (%):	1.7 Vol%
Odor Threshold:	Not determined.	Explosive Limit-Upper (%):	10.9 Vol%
pH:	Not determined.	Vapor Density:	Not determined.
Melting Point/Range:	Undetermined.	Vapor Pressure:	Not determined.
Boiling Point:	-44°C (-47.2°F)	Solubility:	Not determined.
Viscosity:	Not determined.	Auto-Igniting:	Product is not self-igniting
Flash Point:	-19°C (-2.2°F)	Decomposition Temp:	Not determined.
Water:	0.0%	Partition Coeff(n-octanol/water):	Not determined.
Relative Density:	Between 0.77 and 0.85 (Water equals 1.00)	Danger of Explosion:	In use, may form flammable/explosive vapour-air mixture.
Evaporation Rate:	Not applicable.		

10. Stability & Reactivity Information**REACTIVITY:**

Stable at normal temperatures.

CHEMICAL STABILITY:

Not fully evaluated.

POSSIBILITY OF HAZARDOUS REACTIONS:

No dangerous reactions known.

CONDITIONS TO AVOID:

Do not allow can to exceed 120°F. Do not warehouse in subfreezing temperatures.

INCOMPATIBLE MATERIALS:

No further relevant information available.

HAZARDOUS DECOMPOSITION PRODUCTS:

No dangerous decomposition products known.

11. Toxicological Information**PRIMARY ROUTE OF ENTRY:**

Eyes: Irritating effect.

Skin: No irritant effect.

Inhalation: May cause damage to organs through prolonged or repeated exposure by inhalation. May cause drowsiness and dizziness. Headache. Nausea, vomiting.

Ingestion: Expected to be a low ingestion hazard.

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS:

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling and blurred vision.

ACUTE TOXICITY:

Narcotic effects.

Components	Species	Test Results
Xylene (Mix) (CAS -64-1)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	2,000 mg/kg
<i>Inhalation</i>		
LC50	Rat	6,350 mg/l (4h)
<i>Oral</i>		
LD50	Rat	8700 mg/kg
PM Acetate (CAS 108-65-6)		
Acute		
<i>Inhalation</i>		
LC50	Rat	35.7 mg/l (4h)
<i>Oral</i>		
LD50	Rat	8,500 mg/kg

Methyl Isobutyl Ketone (CAS 108-10-1)

Acute

Dermal

LD50

Rabbit

16,000 mg/kg

Inhalation

LC50

Rat

8.3-16.6 mg/l

Oral

LD50

Rat

2,100 mg/kg

Ethyl Benzene (CAS 100-41-4)

Acute

Dermal

LC50

Rabbit

17,800 mg/kg

Oral

LD50

Rat

3,500 mg/kg

SENSITIZATION:

No sensitizing effects known.

INFORMATION ON TOXICOLOGICAL EFFECTS:

No data available.

12. Ecological Information

AQUATIC TOXICITY:

Hazardous for water, do not empty into drains.

PERSISTENCE AND DEGRADABILITY:

The product is degradable after prolonged exposure to natural weathering processes.

OTHER INFORMATION:

This product does not contain any chlorofluorocarbons (CFC's), hydrochlorofluorocarbons (HCFC's), perfluorocarbons (PFC's), heavy metals (chromium, lead, cadmium) or chlorinated solvents.

BIOACCUMULATIVE POTENTIAL:

No further relevant information available.

MOBILITY IN SOIL:

No further relevant information available.

OTHER ADVERSE EFFECTS:

No further relevant information available.

13. Disposal Consideration

Dispose of in accordance with local, state and federal regulations. Do not puncture, incinerate or compact. Partially empty cans must be disposed of responsibly. Do not heat or cut empty containers with electric or gas torches.

Recommendation: Completely empty cans should be recycled.

14. Transportation Information

DOT: UN Number: UN1950

DOT: N/A

DOT: Consumer Commodity ORM-D

Aerosols, flammable

ADR: 1950 Aerosols

Transport hazard class(es):

Class: 2.1

Special precautions for user: Warning: Gases

EMS Number: F-D,S-U

Packaging Group: --

UN "Model Regulation": UN 1950 AEROSOLS, 2.1

Not applicable.



15. Regulatory Information

US FEDERAL REGULATIONS:

SARA Section 355 (extremely hazardous substances):

None of the ingredients in this product are listed.

SARA Section 313 (Specific toxic chemical listings):

Chemical Name	CAS Number	% by wt.
Methyl Isobutyl Ketone	108-10-1	2.5 - 10
Xylene	1330-20-7	2.5 - 10
Ethyl Benzene	100-41-4	1 - 2.5

Toxic Substances Control Act

(TSCA): All hazardous ingredients are found on the inventory list of substances.

Canadian Domestic Substances List

(DSL): All ingredients are listed or exempted.

Consumer Product Safety

Commission (CPSC): This product complies with 16 CFR 1303 and does not contain more than 90 ppm of lead.

California Proposition 65 chemicals known to cause cancer:

108-10-1 methyl isobutyl ketone

100-41-4 ethyl benzene

1333-86-4 Carbon black

Prop 65 chemicals known to cause birth defects or reproductive harm:

108-10-1 methyl isobutyl ketone

EPA:

67-64-1 Acetone

1330-20-7 xylene (mix)

108-10-1 methyl isobutyl ketone

100-41-4 ethyl benzene

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.

SAFETY DATA SHEET

1. Product and Company Identification

PRODUCT NUMBER:	1116	COMPANY PHONE:	1-800-241-8180
PRODUCT NAME:	SURE GRIP - YELLOW	EMERGENCY TELEPHONE:	1-800-535-5053
PRODUCT DESCRIPTION:	Aerosol Antiskid Epoxy Coating	INFOTRAC:	1-800-535-5053
COMPANY INFORMATION:	PRO CHEM, INC. 1475 Bluegrass Lakes Parkway Alpharetta, GA 30004		

2. Hazards Identification

GHS CLASSIFICATION: Flammable aerosols: Category 1 Serious eye damage/eye irritation: Category 2A Reproductive Toxicity (the unborn child): Category 2 Specific target organ toxicity, single exposure: Category 3 narcotic effects Specific target organ toxicity, repeated exposure: Category 2 Aspiration hazard: Category 1 Hazardous to the aquatic environment, acute hazard: Category 3 Hazardous to the aquatic environment, long-term hazard: Category 3 OSHA Defined Hazards: Not classified.	SIGNAL WORD: DANGER	SYMBOL:			
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HAZARD STATEMENTS:
 Extremely flammable aerosol. May be fatal if swallowed and enters airways. Causes serious eye irritation. May cause drowsiness or dizziness. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure.

PRECAUTIONARY STATEMENTS:
Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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 gas. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.
Response: If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. If eye irritation persists: Get medical advice/attention.
Storage: Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations.

HAZARDS NOT OTHERWISE SPECIFIED:
 Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

SUPPLEMENTAL INFORMATION:
 None.

3. Composition / Information on Ingredients

Chemical Name	CAS	Concentration % by Weight
Acetone	67-64-1	20 - 40
Propane	74-98-6	10 - 20
Butane	106-97-8	2.5 - 10
Distillates (petroleum), Hydrotreated Light	64742-47-8	2.5 - 10
Ethylene Glycol Propyl Ether	2807-30-9	2.5 - 10
Propylene Glycol Monomethyl Ether Acetate	108-65-6	2.5 - 10
Titanium dioxide	13463-67-7	2.5 - 10
Toluene	108-88-3	2.5 - 10
Other components below reportable levels		10 - 20

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First Aid Measures

EMERGENCY OVERVIEW

GENERAL: If exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

SKIN: Wash off with soap and water. Get medical attention if irritation develops and persists.

INHALATION:

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

INGESTION:

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:

Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling and blurred vision. Prolonged exposure may cause chronic effects.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

5. Fire-Fighting Measures**SUITABLE FIRE EXTINGUISHING MEDIA:**

Alcohol resistant foam. Powder. Carbon dioxide (CO₂).

UNSUITABLE FIRE EXTINGUISHING MEDIA:

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

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

SPECIFIC FIRE-FIGHTING METHODS:

Use standard firefighting procedures and consider the hazards of other involved materials. In the event of fire and/or explosion, do not breathe fumes. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles if possible. If not, withdraw and let fire burn out.

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.

GENERAL FIRE HAZARDS:

Extremely flammable aerosol.

6. Accidental Release Measures**PERSONAL PRECAUTIONS:**

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during cleanup. Do not breathe gas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see Section 8 of the SDS.

ENVIRONMENTAL PRECAUTIONS:

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

METHODS & MATERIALS FOR CONTAINMENT & CLEANUP:

Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Prevent product from entering drains. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see Section 13 of the SDS.

7. Handling and Storage**SAFE HANDLING:**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind or expose containers to heat, flame, sparks or other sources of ignition. All equipment used when handling the product must be grounded. Do not reuse empty containers. Do not breathe gas. Avoid contact with eyes. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

SAFE STORAGE & INCOMPATIBILITIES:

Level 2 Aerosol.

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122°F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure Controls / Personal Protection**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000):**

Components	Type	Value	Form
Acetone (CAS 67-64-1)	PEL	2400 mg/m ³ 1000 ppm	
Propane (CAS 74-98-6)	PEL	1800 mg/m ³ 1000 ppm	
Titanium dioxide (CAS 13463-67-7)	PEL	15 mg/m ³	Total dust.

US. OSHA Table Z-2 (29 CFR 1910.1000):

Components	Type	Value
Toluene (CAS 108-88-3)	Ceiling TWA	300 ppm 200 ppm

US. ACGIH Threshold Limit Values:

Acetone (CAS 67-64-1)	STEL TWA	500 ppm 250 ppm
Butane (CAS 106-97-8)	STEL	1000 ppm
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m ³
Toluene (CAS 108-88-3)	TWA	20 ppm

US. NIOSH: Pocket Guide to Chemical Hazards:

Components	Type	Value
Acetone (CAS 67-64-1)	TWA	590 mg/m ³ 250 ppm
Butane (CAS 106-97-8)	TWA	1900 mg/m ³ 800 ppm
Propane (CAS 74-98-6)	TWA	1800 mg/m ³ 1000 ppm
Toluene (CAS 108-88-3)	STEL	560 mg/m ³ 150 ppm
	TWA	375 mg/m ³ 100 ppm

US. Workplace Environmental Exposure Level (WEEL) Guides:

Components	Type	Value
Propylene Glycol Monomethyl Ether Acetate (CAS 108-65-6)	TWA	50 ppm

BIOLOGICAL LIMIT VALUES:

ACGIH Biological Exposure Indices:

Components	Value	Determinant	Specimen	Sampling Time
Acetone (CAS 67-64-1)	25 mg/l	Acetone	Urine	*
Toluene (CAS 108-88-3)	0.3 mg/g	o-Cresol, with hydrolysis	Creatinine in urine	*
	0.03 mg/l	Toluene	Urine	*
	0.02 mg/l	Toluene	Blood	*

* - For sampling details, please see the source document.

EXPOSURE GUIDELINES:

US - California OELs: Skin designation:

Propylene Glycol Monomethyl Ether Acetate (CAS 108-65-6): Can be absorbed through the skin.

Toluene (CAS 108-88-3): Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies:

Toluene (CAS 108-88-3): Skin designation applies.

PERSONAL PROTECTIVE EQUIPMENT:



Eye/Face Protection: Wear safety glasses with side shields (or goggles).

Skin Protection: Hand protection: Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

Other: Wear suitable protective clothing. Use of an impervious apron is recommended.

Respiratory Protection: If permissible levels are exceeded, use NIOSH mechanical filter/organic vapor cartridge or an air-supplied respirator.

Thermal Hazards: Wear appropriate thermal protective clothing when necessary.

General Hygiene Considerations: Observe any medical surveillance requirements. When using, do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

APPROPRIATE ENGINEERING CONTROLS:

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

9. Physical & Chemical Properties

Physical State:	Gas.	Flammability(solid/gas):	Not available.
Form:	Aerosol.	Flammability Limit-lower (%):	1.1% estimated.
Color:	Not available.	Flammability Limit-upper (%):	7.1% estimated.
Odor:	Not available.	Explosive Limit-Lower (%):	Not available.
Odor Threshold:	Not available.	Explosive Limit-Upper (%):	Not available.
pH:	Not available.	Vapor Density:	Not available.
Melting/Freezing Point:	Not available.	Vapor Pressure:	2750 hPa @70°F estimated.
Boiling Point/Range:	94.28°F (34.6°C) estimated.	Relative Density:	Not available.
Viscosity:	Not available.	Solubility (water):	Not available.
Flash Point:	-2.2°F (-19.0°C) SUPPLIER.	Auto-Ignition Temp:	Not available.
Specific Gravity:	0.85 estimated.	Decomposition Temp:	Not available.
Oxidizing Properties	Not oxidizing.	Partition Coeff(n-octanol/water):	Not available.
Explosive Properties:	Not explosive.	Evaporation Rate:	Not available.

10. Stability & Reactivity Information

REACTIVITY:

The product is stable and non-reactive under normal conditions of use, storage and transport.

CHEMICAL STABILITY:

Material is stable under normal conditions.

POSSIBILITY OF HAZARDOUS REACTIONS:

Hazardous polymerization does not occur.

CONDITIONS TO AVOID:

Avoid temperatures exceeding the flash point. Contact with incompatible materials.

INCOMPATIBLE MATERIALS:

Strong oxidizing agents. Nitrates. Fluorine. Chlorine.

HAZARDOUS DECOMPOSITION PRODUCTS:

No hazardous decomposition products are known.

11. Toxicological Information**PRIMARY ROUTE OF ENTRY:****Eyes:** Causes serious eye irritation.**Skin:** No adverse effects due to skin contact are expected.**Inhalation:** May cause damage to organs through prolonged or repeated exposure by inhalation. May cause drowsiness and dizziness. Headache. Nausea, vomiting.**Ingestion:** Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.**SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS:**

Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling and blurred vision.

ACUTE TOXICITY:

May be fatal if swallowed and enters airways. Narcotic effects.

Components	Species	Test Results
Acetone (CAS 67-64-1)		
Acute		
<i>Dermal</i>		
LD50	Guinea pig	>7426 mg/kg, 24 Hours
	Rabbit	>9.4 ml/kg, 24 Hours
		>7426 mg/kg, 24 Hours
		>9.4 ml/kg, 24 Hours
<i>Inhalation</i>		
LC50	Rat	55700 ppm, 3 Hours
		132 mg/l, 3 Hours
		50.1 mg/l
<i>Oral</i>		
LD50	Rat	5800 mg/kg
		2.2 ml/kg
Butane (CAS 106-97-8)		
Acute		
<i>Inhalation</i>		
LC50	Mouse	1237 mg/l, 120 Minutes
		52%, 120 Minutes
	Rat	1355 mg/l
Distillates (petroleum), Hydrotreated Light (CAS 64742-47-8)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	>2000 mg/kg
		>2000 mg/kg, 24 Hours
<i>Inhalation</i>		
LC50	Rat	>7.5 mg/l, 6 Hours
		>4.6 mg/l, 4 Hours
<i>Oral</i>		
LD50	Rat	>5000 mg/kg
Ethylene Glycol Propyl Ether (CAS 2807-30-9)		
Acute		
<i>Dermal</i>		
LD50	Guinea pig	5.6 g/kg, 4 Days
	Rabbit	>1 g/kg, 24 Hours
		1337 ml/kg, 14 Days
<i>Inhalation</i>		
LC50	Rat	>2132 ppm, 6 Hours
		>1800 ppm
<i>Oral</i>		
LD50	Guinea pig	2.2 g/kg
	Mouse	1774 mg/kg
	Rat	0.5 - 1 g/kg
Propane (CAS 74-98-6)		
Acute		
<i>Inhalation</i>		
LC50	Mouse	1237 mg/l, 120 Minutes
		52%, 120 Minutes

	Rat	1355 mg/l 658 mg/l/4h
Propylene Glycol Monomethyl Ether Acetate (CAS 108-65-6)		
Acute <i>Dermal</i> LD50	Rat	>2000 mg/kg, 24 Hours
<i>Oral</i> LD50	Rat	>5000 mg/kg >14.1 ml
Titanium dioxide (CAS 13463-67-7)		
Acute <i>Inhalation</i> LC50	Rat	>2.28 mg/l, 4 Hours
<i>Oral</i> LD50	Mouse Rat	>5000 mg/kg >2000 mg/kg
Toluene (CAS 108-88-3)		
Acute <i>Dermal</i> LD50	Rabbit	>5000 mg/kg, 24 Hours
<i>Inhalation</i> LC50	Mouse Rat	6405 - 7436 ppm, 6 Hours 5320 ppm, 8 Hours 5879 - 6281 ppm, 6 Hours 25.7 mg/l, 4 Hours
<i>Oral</i> LD50	Rat	>5000 mg/kg
* Estimates for product may be based on additional component data not shown.		
SKIN CORROSION/IRRITATION: Not applicable.		
SERIOUS EYE DAMAGE/EYE IRRITATION: Causes serious eye irritation.		
RESPIRATORY SENSITIZATION: Not a respiratory sensitizer.		
SKIN SENSITIZATION: This product is not expected to cause skin sensitization.		
GERM CELL MUTAGENICITY: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
CARCINOGENICITY: Risk of cancer cannot be excluded with prolonged exposure. IARC Monographs. Overall Evaluation of Carcinogenicity: Titanium dioxide (CAS 13463-67-7): 2B Possibly carcinogenic to humans. Toluene (CAS 108-88-3): 3 Not classifiable as to carcinogenicity to humans. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Not listed.		
REPRODUCTIVE TOXICITY: Suspected of damaging the unborn child.		
SPECIFIC TARGET ORGAN TOXICITY -single exposure: May cause drowsiness and dizziness.		
SPECIFIC TARGET ORGAN TOXICITY -repeated exposure: May cause damage to organs through prolonged or repeated exposure.		
ASPIRATION HAZARD: May be fatal if swallowed and enters airways.		
CHRONIC EFFECTS: May cause damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.		

12. Ecological Information			
ECOTOXICITY: Harmful to aquatic life with long lasting effects.			
Components		Species	Test Results
Acetone (CAS 67-64-1)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	21.6 - 23.9 mg/l, 48 hours
Fish	LC50	Rainbow trout, donaldson trout (Oncorhynchus mykiss)	4740 - 6330 mg/l, 96 hours
Distillates (petroleum), Hydrotreated Light (CAS 64742-47-8)			
Aquatic			
Fish	LC50	Rainbow trout, donaldson trout (Oncorhynchus mykiss)	2.9 mg/l, 96 hours

Propylene Glycol Monomethyl Ether Acetate (CAS 108-65-6)			
Aquatic			
Crustacea	EC50	Daphnia	500.0001 mg/L, 48 Hours
Titanium Dioxide (CAS 13463-67-7)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	>1000 mg/l, 48 hours
Fish	LC50	Mummichog (Fundulus heteroclitus)	>1000 mg/l, 96 hours
Toluene (CAS 108-88-3)			
Aquatic			
Algae	IC50	Algae	433.0001 mg/L, 72 Hours
Crustacea	EC50	Daphnia	7.645 mg/L, 48 Hours
		Water flea (Daphnia magna)	5.46 - 9.83 mg/l, 48 hours
Fish	LC50	Coho salmon, silver salmon (Oncorhynchus kisutch)	8.11 mg/l, 96 hours
* Estimates for product may be based on additional component data not shown.			
PERSISTENCE AND DEGRADABILITY:			
No data is available on the degradability of this product.			
BIOACCUMULATIVE POTENTIAL:			
Partition coefficient n-octanol / water (log Kow):			
	Acetone	-0.24	
	Butane	2.89	
	Propane	2.36	
	Toluene	2.73	
MOBILITY IN SOIL:			
No data available.			
OTHER ADVERSE EFFECTS:			
No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.			

13. Disposal Consideration

DISPOSAL INSTRUCTIONS:
Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

LOCAL DISPOSAL REGULATIONS:
Dispose in accordance with all applicable regulations.

HAZARDOUS WASTE CODE:
The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

WASTE FROM RESIDUES/UNUSED PRODUCTS:
Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (See: Disposal instructions).

CONTAMINATED PACKAGING:
Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not reuse empty containers.

14. Transportation Information

DOT: **UN Number:** UN 1950
UN Proper Shipping Name: Aerosols, flammable
Transport Hazard Class(es):
Class: 2.1
Subsidiary risk: -
Label(s): 2.1

Packing Group: Not applicable.
Special Precautions for User: Not available.
Special Provisions: N82
Packaging Exceptions: 306
Packaging Non-Bulk: None.
Packaging Bulk: None.

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently.

IATA: **UN Number:** UN1950
UN Proper Shipping Name: Aerosols, flammable
Transport Hazard Class(es):
Class: 2.1
Subsidiary risk: -
Label(s): 2.1

Packing Group: Not applicable.
Environmental Hazards: Yes.
ERG Code: 10L
Special Precautions For User: Read safety instructions, SDS and emergency procedures before handling.
Other Information:
Passenger and Cargo Aircraft: Allowed with restrictions.



Cargo Aircraft Only: Allowed with restrictions.

Packaging Exceptions: LTD QTY

IMDG: **UN Number:** UN1950

UN Proper Shipping Name: AEROSOLS

Transport Hazard Class(es):

Class: 2.1

Subsidiary risk: -

Label(s): 2.1

Packing Group: Not applicable.

Environmental Hazards:

EmS: F-D, S-U

Special Precautions For User: Read safety instructions, SDS and emergency procedures before handling.

Packaging Exceptions: LTD QTY

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE:

Not applicable.



15. Regulatory Information

US FEDERAL REGULATIONS:

All components are on the U.S. EPA TSCA Inventory List. This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D): Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4):

Acetone (CAS 67-64-1) Listed.

Toluene (CAS 108-88-3) Listed.

SARA 304 Emergency release notification: Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Not listed.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA):

Hazard categories:

Immediate Hazard – Yes.

Delayed Hazard – Yes.

Fire Hazard – Yes.

Pressure Hazard – No.

Reactivity Hazard – No.

SARA 302 Extremely hazardous substance: Not listed.

SARA 311/312 Hazardous chemical: No.

SARA 313 (TRI reporting):

Chemical Name	CAS Number	% by wt.
Toluene	108-88-3	2.5-10

OTHER FEDERAL REGULATIONS:

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List:

Toluene (CAS 108-88-3)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

Butane (CAS 106-97-8)

Propane (CAS 74-98-6)

Safe Drinking Water Act (SDWA): Not regulated.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number:

Acetone (CAS 67-64-1) 6532

Toluene (CAS 108-88-3) 6594

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c)):

Acetone (CAS 67-64-1) 35% WV

Toluene (CAS 108-88-3) 35% WV

DEA Exempt Chemical Mixtures Code Number:

Acetone (CAS 67-64-1) 6532

Toluene (CAS 108-88-3) 594

US STATE REGULATIONS:

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100): Not listed.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.(a)):

Acetone (CAS 67-64-1)

Butane (CAS 106-97-8)

Titanium dioxide (CAS 13463-67-7)

Toluene (CAS 108-88-3)

US. Massachusetts RTK - Substance List:

Acetone (CAS 67-64-1)

Butane (CAS 106-97-8)

Propane (CAS 74-98-6)

Titanium dioxide (CAS 13463-67-7)

Toluene (CAS 108-88-3)

US. New Jersey Worker and Community Right-to-Know Act:

Acetone (CAS 67-64-1)

Butane (CAS 106-97-8)

Propane (CAS 74-98-6)

Titanium dioxide (CAS 13463-67-7)

Toluene (CAS 108-88-3)

US. Pennsylvania Worker and Community Right-to-Know Law:

Acetone (CAS 67-64-1)

Butane (CAS 106-97-8)
Propane (CAS 74-98-6)
Titanium dioxide (CAS 13463-67-7)
Toluene (CAS 108-88-3)

US. Rhode Island RTK:

Acetone (CAS 67-64-1)
Butane (CAS 106-97-8)
Propane (CAS 74-98-6)
Toluene (CAS 108-88-3)

US. California Proposition 65:

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance:

Ethyl Benzene (CAS 100-41-4) Listed: June 11, 2004
Titanium dioxide (CAS 13463-67-7) Listed: September 2, 2011

US - California Proposition 65 - CRT: Listed date/Developmental toxin:

Toluene (CAS 108-88-3) Listed: January 1, 1991

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

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.

SAFETY DATA SHEET

1. Product and Company Identification

PRODUCT NUMBER:	1116	COMPANY PHONE:	1-800-241-8180
PRODUCT NAME:	SURE GRIP - CLEAR	EMERGENCY TELEPHONE:	1-800-535-5053
PRODUCT DESCRIPTION:	Aerosol Antiskid Epoxy Coating	INFOTRAC:	1-800-535-5053
COMPANY INFORMATION:	PRO CHEM, INC. 1475 Bluegrass Lakes Parkway Alpharetta, GA 30004		

2. Hazards Identification

GHS CLASSIFICATION:
Flammable aerosols: Category 1
Serious eye damage/eye irritation: Category 2A
Specific target organ toxicity, single exposure: Category 3 narcotic effects
Specific target organ toxicity, repeated exposure: Category 2
OSHA Defined Hazards: Not classified.

SIGNAL WORD:
DANGER

SYMBOL:



HAZARD STATEMENTS:

Extremely flammable aerosol. Causes serious eye irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure.

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 gas. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear eye protection/face protection.

Response: IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF EXPOSED OR CONCERNED: Get medical advice/attention. Call a poison center/doctor if you feel unwell. If eye irritation persists: Get medical advice/attention.

Storage: Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations.

HAZARDS NOT OTHERWISE SPECIFIED:

None known.

SUPPLEMENTAL INFORMATION:

None.

3. Composition / Information on Ingredients

Chemical Name	CAS	Concentration % by Weight
Acetone	67-64-1	20 - 40
Propane	74-98-6	10 - 20
Butane	106-97-8	2.5 - 10
Methyl Isobutyl Ketone	108-10-1	2.5 - 10
Xylene	1330-20-7	2.5 - 10
Calcium Carbonate	1317-65-3	1 - 2.5
Ethyl Benzene	100-41-4	1 - 2.5
Propylene Glycol Monomethyl Ether Acetate	108-65-6	1 - 2.5
Other components below reportable levels		10 - 20

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First Aid Measures

EMERGENCY OVERVIEW

GENERAL: If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

SKIN: Wash off with soap and water. Get medical attention if irritation develops and persists.

INHALATION:

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

INGESTION:

In the unlikely event of swallowing, contact a physician or poison control center. Rinse mouth.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling and blurred vision. Prolonged exposure may cause chronic effects.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

5. Fire-Fighting Measures

SUITABLE FIRE EXTINGUISHING MEDIA:

Alcohol resistant foam. Powder. Carbon dioxide (CO₂).

UNSUITABLE FIRE EXTINGUISHING MEDIA:

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

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

FIRE FIGHTING EQUIPMENT METHODS/INSTRUCTIONS:

Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure buildup. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Use standard firefighting procedures and consider the hazards of other involved materials. In the event of fire and/or explosion, do not breathe fumes.

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.

GENERAL FIRE HAZARDS:

Extremely flammable aerosol.

6. Accidental Release Measures

PERSONAL PRECAUTIONS:

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during cleanup. Do not breathe gas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see Section 8 of the SDS.

ENVIRONMENTAL PRECAUTIONS:

Avoid discharge into drains, water courses or onto the ground.

METHODS & MATERIALS FOR CONTAINMENT & CLEANUP:

Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see Section 13 of the SDS.

7. Handling and Storage

SAFE HANDLING:

Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind or expose containers to heat, flame, sparks or other sources of ignition. All equipment used when handling the product must be grounded. Do not reuse empty containers. Do not breathe gas. Avoid contact with eyes. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

SAFE STORAGE & INCOMPATIBILITIES:

Level 2 Aerosol.

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122°F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure Controls / Personal Protection

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Acetone (CAS 67-64-1)	PEL	2400 mg/m ³ 1000 ppm	
Calcium Carbonate (CAS 1317-65-3)	PEL	5 mg/m ³ 15 mg/m ³	Respirable fraction. Total dust.
Ethyl Benzene (CAS 100-41-4)	PEL	435 mg/m ³ 100 ppm	
Methyl Isobutyl Ketone (CAS 108-10-1)	PEL	410 mg/m ³ 100 ppm	
Propane (CAS 74-98-6)	PEL	1800 mg/m ³ 1000 ppm	
Xylene (CAS 1330-20-7)	PEL	435 mg/m ³ 100 ppm	

US. ACGIH Threshold Limit Values

Acetone (CAS 67-64-1)	STEL	500 ppm
	TWA	250 ppm
Butane (CAS 106-97-8)	STEL	1000 ppm
Ethyl Benzene (CAS 100-41-4)	TWA	20 ppm
Methyl Isobutyl Ketone (CAS 108-10-1)	STEL	75 ppm
	TWA	20 ppm
Xylene (CAS 1330-20-7)	STEL	150 ppm
	TWA	100 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	
Acetone (CAS 67-64-1)	TWA	590 mg/m ³ 250 ppm	
Butane (CAS 106-97-8)	TWA	1900 mg/m ³ 800 ppm	
Calcium Carbonate (CAS 1317-65-3)	TWA	5 mg/m ³ 10 mg/m ³	Respirable. Total
Ethyl Benzene (CAS 100-41-4)	STEL	545 mg/m ³ 125 ppm	
	TWA	435 mg/m ³ 100 ppm	
Methyl Isobutyl Ketone (CAS 108-10-1)	STEL	300 mg/m ³ 75 ppm	
	TWA	205 mg/m ³ 50 ppm	
Propane (CAS 74-98-6)	TWA	1800 mg/m ³ 1000 ppm	

US. Workplace Environmental Exposure Level (WEEL) Guides

Components	Type	Value
Propylene Glycol Monomethyl Ether Acetate (CAS 108-65-6)	TWA	50 ppm

BIOLOGICAL LIMIT VALUES
ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
Acetone (CAS 67-64-1)	25 mg/l	Acetone	Urine	*
Ethyl Benzene (CAS 100-41-4)	0.15 g/g	Sum of mandelic acid and phenylglyoxylic acid	Creatinine in urine	*
Methyl Isobutyl Ketone (CAS 108-10-1)	1 mg/l	Methyl isobutyl ketone	Urine	*
Xylene (CAS 1330-20-7)	1.5 g/g	Methylhippuric acids	Creatinine in urine	*

* - For sampling details, please see the source document.

EXPOSURE GUIDELINES:
US - California OELs: Skin designation:

Propylene Glycol Monomethyl Ether Acetate (CAS 108-65-6): Can be absorbed through the skin.

PERSONAL PROTECTIVE EQUIPMENT:


Eye/Face Protection: Wear safety glasses with side shields (or goggles).

Skin Protection: Hand protection: Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

Other: Wear suitable protective clothing. Use of an impervious apron is recommended.

Respiratory Protection: If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

Thermal Hazards: Wear appropriate thermal protective clothing, when necessary.

General Hygiene Considerations: When using, do not smoke. Always observe good personal hygiene measures such as washing after handling the material and before eating, drinking and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

APPROPRIATE ENGINEERING CONTROLS:

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

9. Physical & Chemical Properties

Physical State:	Gas.	Flammability(solid/gas):	Not available.
Form:	Aerosol.	Flammability Limit-lower (%):	Not available.
Color:	Not available.	Flammability Limit-upper (%):	Not available.
Odor:	Not available.	Explosive Limit-Lower (%):	Not available.
Odor Threshold:	Not available.	Explosive Limit-Upper (%):	Not available.
pH:	Not available.	Vapor Density:	Not available.
Melting/Freezing Point:	Not available.	Vapor Pressure:	Not available.
Initial Boiling Point/Range:	93.81 °F (34.34°C) estimated.	Relative Density:	Not available.
Viscosity:	Not available.	Solubility (water):	Not available.
Flash Point:	-2.2 °F (-19.0°C) supplier.	Auto-Ignition Temp:	Not available.
Specific Gravity:	0.584 estimated.	Decomposition Temp:	Not available.
Oxidizing Properties	Not oxidizing.	Partition Coeff(n-octanol/water):	Not available.
Explosive Properties:	Not explosive.	Evaporation Rate:	Not available.
Heat of Combustion (NFPA 30B):	24.09 kJ/g estimated.		

10. Stability & Reactivity Information
REACTIVITY:

The product is stable and non-reactive under normal conditions of use, storage and transport.

CHEMICAL STABILITY:

Material is stable under normal conditions.

POSSIBILITY OF HAZARDOUS REACTIONS:

Hazardous polymerization does not occur.

CONDITIONS TO AVOID:

Avoid temperatures exceeding the flash point. Contact with incompatible materials.

INCOMPATIBLE MATERIALS:

Strong acids. Acids. Strong oxidizing agents. Nitrates. Halogens. Fluorine. Chlorine.

HAZARDOUS DECOMPOSITION PRODUCTS:

No hazardous decomposition products are known.

11. Toxicological Information**PRIMARY ROUTE OF ENTRY:**

Eyes: Causes serious eye irritation.

Skin: No adverse effects due to skin contact are expected.

Inhalation: May cause damage to organs through prolonged or repeated exposure by inhalation. May cause drowsiness and dizziness. Headache. Nausea, vomiting.

Ingestion: Expected to be a low ingestion hazard.

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS:

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling and blurred vision.

ACUTE TOXICITY:

Narcotic effects.

Components	Species	Test Results
Acetone (CAS 67-64-1)		
Acute		
<i>Dermal</i>		
LD50	Guinea pig	>7426 mg/kg, 24 Hours
	Rabbit	>9.4 ml/kg, 24 Hours
		>7426 mg/kg, 24 Hours
		>9.4 ml/kg, 24 Hours
<i>Inhalation</i>		
LC50	Rat	55700 ppm, 3 Hours
		132 mg/l, 3 Hours
		50.1 mg/l
<i>Oral</i>		
LD50	Rat	5800 mg/kg
		2.2 ml/kg
Butane (CAS 106-97-8)		
Acute		
<i>Inhalation</i>		
LC50	Mouse	1237 mg/l, 120 Minutes
	Rat	52%, 120 Minutes
		1355 mg/l
Ethyl Benzene (CAS 100-41-4)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	17.8 ml/kg, 24 Hours
<i>Inhalation</i>		
LC50	Mouse	> 8000 ppm, 20 Minutes
	Rat	4000 ppm
<i>Oral</i>		
LD50	Rat	3500 mg/kg
Methyl Isobutyl Ketone (CAS 108-10-1)		
Acute		
<i>Inhalation</i>		
LC50	Rat	2000 - 4000 ppm, 4 Hours
<i>Oral</i>		
LD50	Rat	2.08 g/kg
Propane (CAS 74-98-6)		
Acute		
<i>Inhalation</i>		
LC50	Mouse	1237 mg/l, 120 Minutes
	Rat	52%, 120 Minutes
		1355 mg/l
		658 mg/l/4h

Propylene Glycol Monomethyl Ether Acetate (CAS 108-65-6)

Acute

Dermal
LD50

Rat

>2000 mg/kg, 24 Hours

Oral

LD50

Rat

>5000 mg/kg
>14.1 ml

Xylene (CAS 1330-20-7)

Acute

Dermal
LD50

Rabbit

>5000 ml/kg, 4 Hours
12126 mg/kg, 24 Hours

Inhalation

LC50

Rat

5922 ppm, 4 Hours

Oral

LD50

Mouse

5251 mg/kg

Rat

3523 mg/kg

10 ml/kg

* Estimates for product may be based on additional component data not shown.

SKIN CORROSION/IRRITATION:

Not applicable.

SERIOUS EYE DAMAGE/EYE IRRITATION:

Causes serious eye irritation.

RESPIRATORY SENSITIZATION:

Not a respiratory sensitizer.

SKIN SENSITIZATION:

This product is not expected to cause skin sensitization.

GERM CELL MUTAGENICITY:

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

CARCINOGENICITY:

Risk of cancer cannot be excluded with prolonged exposure.

IARC Monographs. Overall Evaluation of Carcinogenicity:

Ethyl Benzene (CAS 100-41-4): 2B Possibly carcinogenic to humans.

Methyl Isobutyl Ketone (CAS 108-10-1): 2B Possibly carcinogenic to humans.

Xylene (CAS 1330-20-7): 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens: Not listed.

REPRODUCTIVE TOXICITY:

Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals.

SPECIFIC TARGET ORGAN TOXICITY -single exposure:

May cause drowsiness and dizziness.

SPECIFIC TARGET ORGAN TOXICITY -repeated exposure:

May cause damage to organs through prolonged or repeated exposure.

ASPIRATION HAZARD:

Not likely due to the form of the product.

CHRONIC EFFECTS:

May cause damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

12. Ecological Information

ECOTOXICITY:

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components		Species	Test Results
Acetone (CAS 67-64-1)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	21.6 - 23.9 mg/l, 48 hours
Fish	LC50	Rainbow trout, donaldson trout (Oncorhynchus mykiss)	4740 - 6330 mg/l, 96 hours
Ethyl Benzene (CAS 100-41-4)			
Aquatic			
Algae	IC50	Algae	4.6 mg/L, 72 Hours
Crustacea	EC50	Daphnia	2.1 mg/L, 48 Hours
		Water flea (Daphnia magna)	1.37 - 4.4 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	7.5 - 11 mg/l, 96 hours
Propylene Glycol Monomethyl Ether Acetate (CAS 108-65-6)			
Aquatic			
Crustacea	EC50	Daphnia	500.0001 mg/L, 48 Hours

Xylene (CAS 1330-20-7)**Aquatic**Fish LC50 Bluegill (*Lepomis macrochirus*) 7.711 - 9.591 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

PERSISTENCE AND DEGRADABILITY:

No data is available on the degradability of this product.

BIOACCUMULATIVE POTENTIAL:

Partition coefficient n-octanol / water (log Kow)

Acetone	-0.24
Butane	2.89
Ethyl Benzene	3.15
Methyl Isobutyl Ketone	1.31
Propane	2.36
Xylene	3.12 - 3.2

MOBILITY IN SOIL:

No data available.

OTHER ADVERSE EFFECTS:

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal Consideration**DISPOSAL INSTRUCTIONS:**

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Dispose of contents/container in accordance with local/regional/national/international regulations.

LOCAL DISPOSAL REGULATIONS:

Dispose in accordance with all applicable regulations.

HAZARDOUS WASTE CODE:

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

WASTE FROM RESIDUES/UNUSED PRODUCTS:

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (See: Disposal instructions).

CONTAMINATED PACKAGING:

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not reuse empty containers.

14. Transportation Information

DOT: UN Number: UN1950
UN Proper Shipping Name: Aerosols, flammable, (each not exceeding 1 L capacity)
Transport Hazard Class(es):
 Class: 2.1
 Subsidiary risk: -
 Label(s): 2.1

Packing Group: Not applicable.**Special Precautions for User:** Read safety instructions, SDS and emergency procedures before handling.**Special Provisions:** N82**Packaging Exceptions:** 306**Packaging Non-Bulk:** None.**Packaging Bulk:** None.

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking.

IATA: UN Number: UN1950
UN Proper Shipping Name: Aerosols, flammable
Transport Hazard Class(es):
 Class: 2.1
 Subsidiary risk: -
 Label(s): 2.1

Packing Group: Not applicable.**Environmental Hazards:** No.**ERG Code:** 10L**Special Precautions For User:** Read safety instructions, SDS and emergency procedures before handling.**Other Information:****Passenger and Cargo Aircraft:** Allowed with restrictions.**Cargo Aircraft Only:** Allowed with restrictions.**Packaging Exceptions:** LTD QTY

IMDG: UN Number: UN1950
UN Proper Shipping Name: AEROSOLS
Transport Hazard Class(es):
 Class: 2.1
 Subsidiary risk: -
 Label(s): 2.1

Packing Group: Not applicable.**Environmental Hazards:****EmS:** F-D, S-U**Special Precautions For User:** Read safety instructions, SDS and emergency procedures before handling.

Packaging Exceptions: LTD QTY
TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE:
Not applicable.

15. Regulatory Information

US FEDERAL REGULATIONS:

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D): Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4):

Acetone (CAS 67-64-1) Listed.
Ethyl Benzene (CAS 100-41-4) Listed.
Methyl Isobutyl Ketone (CAS 108-10-1) Listed.
Xylene (CAS 1330-20-7) Listed.

SARA 304 Emergency release notification: Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Not regulated.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA):

Hazard categories:

Immediate Hazard – Yes.
Delayed Hazard – Yes.
Fire Hazard – Yes.
Pressure Hazard – No.
Reactivity Hazard – No.

SARA 302 Extremely hazardous substance: Not listed.

SARA 311/312 Hazardous chemical: No.

SARA 313 (TRI reporting):

Chemical Name	CAS Number	% by wt.
Methyl Isobutyl Ketone	108-10-1	2.5 - 10
Xylene	1330-20-7	2.5 - 10
Ethyl Benzene	100-41-4	1 - 2.5

OTHER FEDERAL REGULATIONS:

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List:

Ethyl Benzene (CAS 100-41-4)
Methyl Isobutyl Ketone (CAS 108-10-1)
Xylene (CAS 1330-20-7)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

Butane (CAS 106-97-8)
Propane (CAS 74-98-6)

Safe Drinking Water Act (SDWA): Not regulated.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number:

Acetone (CAS 67-64-1) 6532
Methyl Isobutyl Ketone (CAS 108-10-1) 6715

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c)):

Acetone (CAS 67-64-1) 35% WV
Methyl Isobutyl Ketone (CAS 108-10-1) 35% WV

DEA Exempt Chemical Mixtures Code Number:

Acetone (CAS 67-64-1) 6532
Methyl Isobutyl Ketone (CAS 108-10-1) 6715

US STATE REGULATIONS:

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100): Not listed.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.(a)):

Acetone (CAS 67-64-1)
Butane (CAS 106-97-8)
Ethyl Benzene (CAS 100-41-4)
Methyl Isobutyl Ketone (CAS 108-10-1)
Xylene (CAS 1330-20-7)

US. Massachusetts RTK - Substance List:

Acetone (CAS 67-64-1)
Butane (CAS 106-97-8)
Calcium Carbonate (CAS 1317-65-3)
Ethyl Benzene (CAS 100-41-4)
Methyl Isobutyl Ketone (CAS 108-10-1)
Propane (CAS 74-98-6)
Xylene (CAS 1330-20-7)

US. New Jersey Worker and Community Right-to-Know Act:

Acetone (CAS 67-64-1)
Butane (CAS 106-97-8)
Calcium Carbonate (CAS 1317-65-3)
Ethyl Benzene (CAS 100-41-4)
Methyl Isobutyl Ketone (CAS 108-10-1)
Propane (CAS 74-98-6)
Xylene (CAS 1330-20-7)

US. Pennsylvania Worker and Community Right-to-Know Law:

Acetone (CAS 67-64-1)
Butane (CAS 106-97-8)
Calcium Carbonate (CAS 1317-65-3)
Ethyl Benzene (CAS 100-41-4)

Methyl Isobutyl Ketone (CAS 108-10-1)
Propane (CAS 74-98-6)
Xylene (CAS 1330-20-7)

US. Rhode Island RTK:

Acetone (CAS 67-64-1)
Butane (CAS 106-97-8)
Ethyl Benzene (CAS 100-41-4)
Methyl Isobutyl Ketone (CAS 108-10-1)
Propane (CAS 74-98-6)
Toluene (CAS 108-88-3)

US. California Proposition 65:

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance:

Ethyl Benzene (CAS 100-41-4) Listed: June 11, 2004
Methyl Isobutyl Ketone (CAS 108-10-1) Listed: November 4, 2011

US - California Proposition 65 - CRT: Listed date/Developmental toxin:

Methyl Isobutyl Ketone (CAS 108-10-1) Listed: March 28, 2014

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

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.