Section 1: Identification of the Substance/Mixture and of the Company Undertaking

Product identifier used on the label:

Product Name:	Zinc-Rich Weld-Thru Primer

Other means of identification:

Product Codes:	07660782781
Product Description:	Extremely flammable aerosol
Synonym:	None

Recommended use of the chemical and restrictions on use:

Product Uses:	Primer. For Professional and Industrial Use Only.
Product Restrictions:	Not for sale to the general public.

Chemical manufacturer address and telephone number:

Manufacturer Name:	Saint-Gobain Abrasives, Inc.
Manufacturer Address 1:	1 New Bond Street
Manufacturer City:	Worcester
Manufacturer State:	MA
Manufacturer Zip Code:	01615
Manufacturer Country:	USA
Manufacturer Web:	www.Nortonabrasives.com
Business Phone:	508-795-5000
Distributor:	Saint-Gobain Canada, Inc.
Distributor Address 1:	28 Albert St, W.
Distributor City:	Plattsville
Distributor State:	ON
Distributor ZipCode:	N0J 1S0
Distributor Country:	Canada
Distributor Web:	www.Nortonabrasives.com
Distributor Phone:	519-684-7441

Emergency phone number:

Emergency Phone:	508-795-5000
Distributor Emergency Phone:	508-795-5000
Creation Date:	2018-07-18
Revision Date:	2018-12-04 16:01:51
Notes from Section 1:	CHEMTREC: For emergencies in the US, call CHEMTREC: 800-424-9300 For emergencies in Canada, call CHEMTREC: 800-424-9300

Section 2: Hazards Identification

Classification of the chemical in accordance with CFR 1910.1200(d)(f):

Signal Words: Danger

Emergency Overview:
Appearance: opaque
Physical state: Aerosol
Odor: Solvent

Product:

GHS Class:
Skin corrosion/irritation: Category 2
Serious eye damage/eye irritation: Category 2A
Carcinogenicity: Category 1A
Reproductive Toxicity: Category 2
Specific target organ toxicity (single exposure): Category 3
Specific target organ toxicity (repeated exposure): Category 2
Aspiration toxicity: Category 1
Flammable aerosols: Category 1
Gases under pressure: Compressed Gas

Hazard Statements:
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H350 - May cause cancer .
H361 - Suspected of damaging fertility or the unborn child .
H336 - May cause drowsiness or dizziness.
H373 - May cause damage to organs (Blood, Central Nervous System, Central Vascular System, Eyes, Hematopoietic System, Kidney, Liver, Respiratory System, and Skin) through prolonged or repeated exposure.
H304 - May be fatal if swallowed and enters airways.
H222 - Extremely flammable aerosol.
H280 - Contains gas under pressure; may explode if heated.

Precautionary Statements:
P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P264 - Wash face, hands and any exposed skin thoroughly after handling
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P271 - Use only outdoors or in a well-ventilated area.
P210 - Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P211 - Do not spray on an open flame or other ignition source.
P251 - Pressurized container: Do not pierce or burn, even after use.
P308+P313 - IF exposed or concerned: Get medical advice/attention.
P321 - Specific treatment (see first aid on this label)
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
P362 - Take off contaminated clothing and wash before reuse.
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P331 - Do NOT induce vomiting.
P405 - Store locked up.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P410+P412 - Protect from sunlight. Do no expose to temperatures exceeding 50 deg C/122 deg F.
P501 - Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified that have been identified during the classification process:

Section 3: Composition/Information on Ingredients

Mixtures:

Ingredient Name	CAS Number	Ingredient Percent	EC Number	Comments
ACETONE	67-64-1	20-30%*		
PROPANE/ISOBUTANE/N-BUTANE	68476-86-8	10-20%*		
POLY(Bisphenol A-co-epichloroh	25036-25-3	10-20%*		
1-METHYOXY-2-PROPANOL ACETATE	108-65-6	10-20%*		
BUTYL ACETATE	123-86-4	1-10%*		
ZINC OXIDE	1314-13-2	1-10%*		
TALC	14807-96-6	1-10%*		
MICA	12001-26-2	1-10%*		
TOLUENE	108-88-3	1-10%*		
METHYL ISOBUTYL KETONE	108-10-1	1-10%*		
ETHYLENE GLYCOL MONOBUTYL ETHE	112-07-2	1-10%*		
XYLENE	1330-20-7	1-10%*		
2-BUTANONE	78-93-3	1-10%*		
SILICA, CRYSTALLINE	14808-60-7	0.1-1%*		

Product:

Notes::

Hazards not otherwise classified (HNOC):
None

Other information:
• Toxic to aquatic life with long lasting effects
4.7E-06% of the mixture consists of ingredient(s) of unknown toxicity

Comments:

*The exact percentage (concentration) of composition has been withheld as a trade secret.

Section 4: First Aid Measures

Description of necessary measures:

Eye Contact:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

Skin Contact:

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.

Inhalation:

Move to fresh air. If breathing is difficult, give oxygen. Artificial respiration and/or oxygen may be necessary. If breathing has stopped, contact emergency medical services immediately.

Ingestion:

Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Drink plenty of water. Call a physician or Poison Control Center immediately.

Most important symptoms/effects, acute and delayed:
Indication of immediate medical attention and special treatment needed

Note To Physicians:

Indication of immediate medical attention and special treatment needed, if necessary:
Treat symptomatically.

Notes from Section 4:	Most important symptoms/effects, acute and delayed: Main Symptoms: Causes skin and eye irritation. Irritating to respiratory system. May cause drowsiness or dizziness. May damage to fertility or the unborn child. May cause cancer. Harmful or fatal if swallowed and enters airways. Causes damage to organs through prolonged or repeated exposure.

Section 5: Firefighting Measures

Suitable and unsuitable extinguishing media

Extinguishing Media:	Suitable: Water fog. Dry chemical. Carbon dioxide (CO2). Cool containers/tanks with water spray.
Unsuitable Media:	Keep away from heat and sources of ignition. Do not smoke. Cool containers/tanks with water spray.

Specific hazards arising from the chemical

Sensitivity To Impact:	Sensitivity to Mechanical Impact: None.
Static Discharge Effects:	Sensitivity to Static Discharge: None.

Special protective equipment and precautions for fire-fighters

Protective Equipment:	Protective Equipment and Precautions for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
NFPA Health:	2
NFPA Fire:	4
NFPA Reactivity:	0
Notes from Section 5:	Specific hazards arising from the chemical: Extremely flammable. Risk of ignition. In the event of fire and/or explosion do not breathe fumes. In the event of fire, cool tanks with water spray. Keep product and empty container away from heat and sources of ignition.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personnel Precautions:	Absorb with sand, clay, or other suitable material. Hard surfaces may be mopped with water. Remove all sources of ignition. Avoid contact with the skin and the eyes. Evacuate personnel to be safe areas.Keep people away from and upwind of spill/leak. Contents under pressure. Do not puncture or incinerate cands. Wear protective gloves/clothing and eye/face protection.

Methods and materials for containment and cleaning up

Methods for Containment:	Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Prevent further leakage or spillage if safe to do so.
Methods for Cleanup:	Pick up and transfer to properly labeled containers. Soak up with inert absorbent material. Clean contaminated surface thoroughly. After cleaning, flush away traces with water.

Environmental precautions

Environmental Precautions:	Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Prevent product from entering drains.

Section 7: Handling and Storage

Precautions for safe handling

Handling:	Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges.
Hygiene Practices:	Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage:	Technical measures/Storage conditions: Keep container tightly closed in a dry and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep in properly labeled containers. Keep out of the reach of children. Store locked up. Incompatible products: Strong acids, alkalis, or oxidizing agents. Aerosol Level: 2

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines

Exposure limit:	Chemical Name: ACETONE CAS: 67-64-1 ACGIH TLV: STEL: 750 ppm TWA: 500 ppm OSHA PEL: TWA: 1000 ppm TWA: 2400 mg/m3 (vacated) TWA: 750 ppm (vacated) TWA: 1800 mg/m3 (vacated) STEL: 2400 mg/m3 The acetone STEL does not apply to the cellulose acetate fiber industry. It is in effect for all other sectors (vacated) STEL: 1000 ppm NIOSH IDLH: IDLH: 2500 ppm TWA: 250 ppm TWA: 590 mg/m3 Chemical Name: PROPANE/ISOBUTANE/N-BUTANE CAS: 68476-86-8 ACGIH TLV: 74-98-6: TWA: 1000 ppm 106-97-8: STEL: 1000 ppm 75-28-5: STEL: 1000 ppm OSHA PEL: 74-98-6: TWA: 1000 ppm TWA: 1800 mg/m3 (vacated) TWA: 1000 ppm (vacated) TWA: 1800 mg/m3 106-97-8: (vacated) TWA: 800 ppm (vacated) TWA: 1900 mg/m3

NIOSH IDLH:
74-98-6:
IDLH: 2100 ppm
TWA: 1000 ppm
TWA: 1800 mg/m3

106-97-8:
TWA: 800 ppm
TWA: 1900 mg/m3

75-28-5:
TWA: 800 ppm
TWA: 1900 mg/m3

Chemical Name: BUTYL ACETATE
CAS: 123-86-4
ACGIH TLV:
STEL: 200 ppm
TWA: 150 ppm

OSHA PEL:
TWA: 150 ppm
TWA: 710 mg/m3
(vacated) TWA: 150 ppm
(vacated) TWA: 710 mg/m3
(vacated) STEL: 200 ppm
(vacated) STEL: 950 mg/m3

NIOSH IDLH:
IDLH: 1700 ppm
TWA: 150 ppm
TWA: 710 mg/m3
STEL: 200 ppm
STEL: 950 mg/m3

Chemical Name: ZINC OXIDE
CAS: 1314-13-2
ACGIH TLV:
STEL: 10 mg/m3 respirable fraction
TWA: 2 mg/m3 respirable fraction

OSHA PEL:
TWA: 5 mg/m3 fume
TWA: 15 mg/m3 total dust
TWA: 5 mg/m3 respirable fraction
(vacated) TWA: 5 mg/m3 fume
(vacated) TWA: 10 mg/m3 total dust
(vacated) TWA: 5 mg/m3 respirable fraction
(vacated) STEL: 10 mg/m3 fume

NIOSH IDLH:
IDLH: 500 mg/m3
Ceiling: 15 mg/m3 dust
TWA: 5 mg/m3 dust and fume
STEL: 10 mg/m3 fume

Chemical Name: TALC
CAS: 14807-96-6
ACGIH TLV:
TWA: 2 mg/m3 particulate matter containing no asbestos and < 1% crystalline silica, respirable fraction

OSHA PEL
(vacated) TWA: 2 mg/m3 respirable dust < 1% Crystalline silica, containing no Asbestos
TWA: 20 mppcf if 1% Quartz or more, use Quartz limit

NIOSH IDLH:
IDLH: 1000 mg/m3
TWA: 2 mg/m3 containing no Asbestos and < 1% Quartz respirable dust

Chemical Name: MICA
CAS: 12001-26-2
ACGIH TLV:
TWA: 3 mg/m3 respirable fraction

OSHA PEL:
(vacated) TWA: 3 mg/m3
respirable dust < 1% Crystalline silica
TWA: 20 mppcf < 1% Crystalline silica

NIOSH IDLH:
IDLH: 1500 mg/m3
TWA: 3 mg/m3 containing < 1% Quartz respirable dust

Chemical Name: TOLUENE
CAS: 108-88-3
ACGIH TLV:
TWA: 20 ppm

OSHA PEL:
TWA: 200 ppm
(vacated) TWA: 100 ppm
(vacated) TWA: 375 mg/m3
(vacated) STEL: 150 ppm
(vacated) STEL: 560 mg/m3
Ceiling: 300 ppm

NIOSH IDLH:
IDLH: 500 ppm
TWA: 100 ppm
TWA: 375 mg/m3
STEL: 150 ppm
STEL: 560 mg/m3

Chemical Name: METHYL ISOBUTYL KETONE
CAS: 108-10-1
ACGIH TLV:
STEL: 75 ppm
TWA: 20 ppm

OSHA PEL:
TWA: 100 ppm
TWA: 410 mg/m3
(vacated) TWA: 50 ppm
(vacated) TWA: 205 mg/m3
(vacated) STEL: 75 ppm
(vacated) STEL: 300 mg/m3

NIOSH IDLH:
IDLH: 500 ppm
TWA: 50 ppm
TWA: 205 mg/m3
STEL: 75 ppm
STEL: 300 mg/m3

Chemical Name: ETHYLENE GLYCOL MONOBUTYL ETHE
CAS: 112-07-2
ACGIH TLV:
TWA: 20 ppm

NIOSH IDLH:
TWA: 5 ppm
TWA: 33 mg/m3

Chemical Name: XYLENE
CAS: 1330-20-7
ACGIH TLV:
STEL: 150 ppm
TWA: 100 ppm

OSHA PEL:
TWA: 100 ppm
TWA: 435 mg/m3
(vacated) TWA: 100 ppm
(vacated) TWA: 435 mg/m3
(vacated) STEL: 150 ppm
(vacated) STEL: 655 mg/m3

Chemical Name: 2-BUTANONE
CAS: 78-93-3
ACGIH TLV:
STEL: 300 ppm
TWA: 200 ppm

OSHA PEL:
TWA: 200 ppm
TWA: 590 mg/m3
(vacated) TWA: 200 ppm
(vacated) TWA: 590 mg/m3
(vacated) STEL: 300 ppm
(vacated) STEL: 885 mg/m3

NIOSH IDLH:
IDLH: 3000 ppm
TWA: 200 ppm
TWA: 590 mg/m3
STEL: 300 ppm
STEL: 885 mg/m3

Chemical Name: SILICA, CRYSTALLINE
CAS: 14808-60-7
ACGIH TLV:
TWA: 0.025 mg/m3 respirable fraction

OSHA PEL:
(vacated) TWA: 0.1 mg/m3 respirable dust
: (30)/(%SiO2 + 2) mg/m3 TWA total dust
: (250)/(%SiO2 + 5) mppcf TWA respirable fraction
: (10)/(%SiO2 + 2) mg/m3 TWA respirable fraction

NIOSH IDLH:
IDLH: 50 mg/m3 respirable dust
TWA: 0.05 mg/m3 respirable dust

ACGIH: (American Conference of Governmental Industrial Hygienists)
OSHA: (Occupational Safety & Health Administration)
NIOSH IDLH: Immediately Dangerous to Life or Health

	Other Exposure Guidelines: Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls

Engineering Controls:	Showers Eyewash stations Ventilation systems.

Individual protection measures

Eye Protection:	Safety glasses with side-shields.
Face Protection:	Safety glasses with side-shields.
Skin Protection:	Chemical resistant apron. Protective gloves.
Respiratory Protection:	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
Other Protective:	Body protection: Chemical resistant apron. Protective gloves.
Hygiene Practices:	Handle in accordance with good industrial hygiene and safety practice.

Section 9: Physical and Chemical Properties

Physical and chemical properties

Physical State:	Aerosol
	Appearance: opaque
Color:	Silver
Odor:	Solvent
pH:	No information available
Melting Temperature:	No information available
Boiling Temperature:	No information available
Flash Point:	-96.4 deg C/-141 deg F
Flash Point Method:	Remarks • Methods: Based on propellant
Ignition Temperature:	No information available
Lower Flammable Limit:	No information available
Upper Flammable Limit:	No information available
Decomposition Temperature:	No information available
Vapor Pressure:	No information available
Vapor Density:	No information available
Freezing Temperature:	No information available
Solubility In Water:	Practically insoluble
Specific Gravity:	.934
Evaporation Rate:	No information available
VOC Content:	48.82%
Viscosity:	No information available
Odor Threshold:	No information available
Octanol Water Partition Coef:	No information available

Explosive Properties:	No information available

Section 10: Stability and Reactivity

Reactivity:

Reactivity:	No data available

Chemical Stability:

Chemical Stability:	Stable under recommended storage conditions.

Possibility of hazardous reactions:
Conditions To Avoid:

Conditions To Avoid:	Extremes of temperature and direct sunlight.

Incompatible Materials:

Incompatible Materials:	Strong acids, alkalis, or oxidizing agents.
Hazardous Decomposition Products:	None known based on information supplied.
Notes from Section 10:	Possibility of hazardous reactions: None under normal processing.

Section 11: Toxicological Information

Toxicological Information:

Product:

Acute Toxicity:	Numerical measures of toxicity - Product Information: Unknown Acute Toxicity: 4.7E-06% of the mixture consists of ingredient(s) of unknown toxicity
Skin Toxicity:	
	The following values are calculated based on chapter 3.1 of the GHS document: ATEmix (dermal) 34438 mg/kg
Ingestion Toxicity:	The following values are calculated based on chapter 3.1 of the GHS document: ATEmix (oral) 52854 mg/kg
Inhalation Toxicity:	
	The following values are calculated based on chapter 3.1 of the GHS document: ATEmix (inhalation-dust/mist) 32.2 mg/l ATEmix (inhalation-vapor) 5136 mg/l
Chronic Toxicity:	May cause adverse liver effects.
Sign and Symptoms:	Symptoms: Symptoms of overexposure may be headache, tiredness, nausea,and vomiting.Harmful in contact with skin. Causes irritation to eyes Causes drowsiness and dizziness. Aspiration into the lungs during swallowing may cause serious lung damage which may be fatal.
Target Organ Data:	Blood, Central nervous system, Central Vascular System (CVS), Eyes, Hematopoietic System, Kidney, Liver, Respiratory system, Skin.
Acute Inhalation Effects:	Vapors may irritate throat and respiratory system. May cause drownsiness and dizziness based on components. May cause irritation of respiratory tract. Avoid breathing vapors or mists.
Acute Skin Effects:	Irritating to skin. Repeated exposure may cause skin dryness or cracking. Prolonged skin contact may defat the skin and produce dermatitis. Avoid contact with skin.

Acute Ingestion Effects:	May be harmful or fatal if swallowed. Aspiration into the lungs during swallowing may cause serious lung damage which may be fatal.
Acute Eye Effects:	Irritating to eyes. Avoid contact with eyes.
Carcinogenicity:	The table below indicates whether each agency has evaluated a listed ingredient as a carcinogen. Chemical Name: TALC CAS: 14807-96-6 IARC: Group 3 Chemical Name: TOLUENE CAS: 108-88-3 IARC: Group 3 Chemical Name: METHYL ISOBUTYL KETONE CAS: 108-10-1 ACGIH: A3 IARC: Group 2B Chemical Name: ETHYLENE GLYCOL MONOBUTYL ETHE CAS: 112-07-2 ACGIH: A3 Chemical Name: XYLENE CAS: 1330-20-7 IARC: Group 3 Chemical Name: SILICA, CRYSTALLINE CAS: 14808-60-7 ACGIH: A2 IARC: Group 1 NTP: Known OSHA: Present ACGIH: (American Conference of Governmental Industrial Hygienists) A2 - Suspected Human Carcinogen A3 - Animal Carcinogen IARC: (International Agency for Research on Cancer) Group 1 - Carcinogenic to Humans Group 2B - Possibly Carcinogenic to Humans Group 3 - Not Classifiable as to Carcinogenicity in Humans NTP: (National Toxicity Program) Known - Known Carcinogen OSHA: (Occupational Safety & Health Administration) X - Present
Mutagenicity:	Germ Cell Mutagenicity: None known.
Reproductive Toxicity:	Product is or contains a chemical which is a known or suspected reproductive hazard.
Irritation:	Skin corrosion/irritation: Irritating to skin. Eye damage/irritation: Irritating to eyes. Irritation: Irritating to eyes, respiratory system and skin.
Sensitization:	None known.
Neurological Effects:	Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.

1-METHYOXY-2-PROPANOL ACETATE:

Skin Toxicity:	LD50 Dermal: > 5 g/kg (Rabbit)
Ingestion Toxicity:	LD50 Oral: = 8532 mg/kg (Rat)

ETHYLENE GLYCOL MONOBUTYL ETHE:

Skin Toxicity:	LD50 Dermal: = 1480 mg/kg (Rabbit)
Ingestion Toxicity:	LD50 Oral: = 1600 mg/kg (Rat)

XYLENE:

Skin Toxicity:	LD50 Dermal: > 4350 mg/kg (Rabbit)
Ingestion Toxicity:	LD50 Oral: = 3500 mg/kg (Rat)
Inhalation Toxicity:	LC50 Inhalation: = 29.08 mg/L (Rat) 4 h

ZINC OXIDE:

Ingestion Toxicity:	LD50 Oral: > 5000 mg/kg (Rat)

ACETONE:

Skin Toxicity:	LD50 Dermal: 20,000 mg/kg (Rabbit)
Ingestion Toxicity:	LD50 Oral: = 5800 mg/kg
Inhalation Toxicity:	LC50 Inhalation: = 50100 mg/m3 (Rat) 8 h

TOLUENE:

Skin Toxicity:	LD50 Dermal: = 12000 mg/kg (Rabbit)
Ingestion Toxicity:	LD50 Oral: > 5000 mg/kg (Rat)
Inhalation Toxicity:	LC50 Inhalation: = 12.5 mg/L (Rat) 4 h

2-BUTANONE:

Skin Toxicity:	LD50 Dermal: = 5000 mg/kg (Rabbit)
Ingestion Toxicity:	LD50 Oral: = 2483 mg/kg (Rat)
Inhalation Toxicity:	LC50 Inhalation: = 11700 ppm (Rat) 4 h

METHYL ISOBUTYL KETONE:

Skin Toxicity:	LD50 Dermal: = 3000 mg/kg (Rabbit)
Ingestion Toxicity:	LD50 Oral: = 2080 mg/kg (Rat)
Inhalation Toxicity:	LC50 Inhalation: = 8.2 mg/L (Rat) 4 h

BUTYL ACETATE:

Skin Toxicity:	LD50 Dermal: > 17600 mg/kg (Rabbit)
Ingestion Toxicity:	LD50 Oral: = 14000 mg/kg (Rat)
Inhalation Toxicity:	LC50 Inhalation: = 390 ppm (Rat) 4 h

SILICA, CRYSTALLINE:

Ingestion Toxicity:	LD50 Oral: = 500 mg/kg (Rat)

Section 12: Ecological Information

1-METHYOXY-2-PROPANOL ACETATE:

Ecotoxicity:

Toxicity to fish:
161 mg/L LC50 Pimephales promelas 96h static

Toxicity to daphnia and other aquatic invertebrates:
500 mg/L EC50 Daphnia magna 48h

TALC:

Ecotoxicity:

Toxicity to fish:
100 g/L LC50 Brachydanio rerio 96h semi-static

ETHYLENE GLYCOL MONOBUTYL ETHE:

Ecotoxicity:

Toxicity to algae:
500 mg/L EC50 Desmodesmus subspicatus 72h

Toxicity to daphnia and other aquatic invertebrates:
37 mg/L EC50 Daphnia magna 48h

XYLENE:

Ecotoxicity:

Toxicity to fish:
13.1 - 16.5 mg/L LC50 Lepomis macrochirus 96h flow-through
13.5 - 17.3 mg/L LC50 Oncorhynchus mykiss 96h
2.661 - 4.093 mg/L LC50 Oncorhynchus mykiss 96h static
23.53 - 29.97 mg/L LC50 Pimephales promelas 96h static
30.26 - 40.75 mg/L LC50 Poecilia reticulata 96h static
7.711 - 9.591 mg/L LC50 Lepomis macrochirus 96h static
13.4 mg/L LC50 Pimephales promelas 96h flow-through
19 mg/L LC50 Lepomis macrochirus 96h
780 mg/L LC50 Cyprinus carpio 96h semi-static
780 mg/L LC50 Cyprinus carpio 96h

Toxicity to daphnia and other aquatic invertebrates:
0.6 mg/L LC50 Gammarus lacustris 48h
3.82 mg/L EC50 water flea 48h

ACETONE:

Ecotoxicity:

Toxicity to fish:
4.74 - 6.33 mL/L LC50 Oncorhynchus mykiss 96h
6210 - 8120 mg/L LC50 Pimephales promelas 96h
static 8300 mg/L LC50 Lepomis macrochirus 96h

Toxicity to daphnia and other aquatic invertebrates:
10294 - 17704 mg/L EC50 Daphnia magna 48h Static
12600 - 12700 mg/L EC50 Daphnia magna 48h

TOLUENE:

Ecotoxicity:

Toxicity to algae:
433 mg/L EC50 Pseudokirchneriella subcapitata 96h
12.5 mg/L EC50 Pseudokirchneriella subcapitata 72h static

Toxicity to fish:
11.0 - 15.0 mg/L LC50 Lepomis macrochirus 96h static
14.1 - 17.16 mg/L LC50 Oncorhynchus mykiss 96h static
15.22 - 19.05 mg/L LC50 Pimephales promelas 96h flow-through
5.89 - 7.81 mg/L LC50 Oncorhynchus mykiss 96h flow-through
50.87 - 70.34 mg/L LC50 Poecilia reticulata 96h static
12.6 mg/L LC50 Pimephales promelas 96h static
28.2 mg/L LC50 Poecilia reticulata 96h semi-static
5.8 mg/L LC50 Oncorhynchus mykiss 96h semi-static
54 mg/L LC50 Oryzias latipes 96h static

Toxicity to daphnia and other aquatic invertebrates:
5.46 - 9.83 mg/L EC50 Daphnia magna 48h Static
11.5 mg/L EC50 Daphnia magna 48h

2-BUTANONE:

Ecotoxicity:

Toxicity to fish:
3130 - 3320 mg/L LC50 Pimephales promelas 96h flow-through

Toxicity to daphnia and other aquatic invertebrates:
4025 - 6440 mg/L EC50 Daphnia magna 48h Static
5091 mg/L EC50 Daphnia magna 48h
520 mg/L EC50 Daphnia magna 48h

METHYL ISOBUTYL KETONE:

Ecotoxicity:

Toxicity to algae:
400 mg/L EC50 Pseudokirchneriella subcapitata 96h

Toxicity to fish:
496 - 514 mg/L LC50 Pimephales promelas 96h flow-through

Toxicity to daphnia and other aquatic invertebrates:
170 mg/L EC50 Daphnia magna 48h

BUTYL ACETATE:

Ecotoxicity:

Toxicity to algae:
674.7 mg/L EC50 Desmodesmus subspicatus 72h

Toxicity to fish:
17 - 19 mg/L LC50 Pimephales promelas 96h flow-through
100 mg/L LC50 Lepomis macrochirus 96h static

Persistence and degradability:

Product:

Biodegredation:

Persistence and degradability:
No information available.

Bioaccumulative potential:

Product:

BioAccumulation:

No information available.

Mobility in soil:

Product:

Notes from Section 12:

Other adverse effects: No information available

1-METHYOXY-2-PROPANOL ACETATE:

Notes from Section 12: log Pow: 0.43

ETHYLENE GLYCOL MONOBUTYL ETHE:

Notes from Section 12: log Pow: 1.51

XYLENE:

Notes from Section 12: log Pow: 3.15

PROPANE/ISOBUTANE/N-BUTANE:

Notes from Section 12: log Pow: 2.8

ACETONE:

Notes from Section 12: log Pow: -0.24

TOLUENE:

Notes from Section 12: log Pow: 2.65

2-BUTANONE:

Notes from Section 12: log Pow: 0.29

METHYL ISOBUTYL KETONE:

Notes from Section 12: log Pow: 1.19

BUTYL ACETATE:

Notes from Section 12: log Pow: 1.81

Section 13: Disposal Considerations

Description of waste:

Waste Disposal:	This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).
Contaminated Packaging:	Do not re-use empty containers.

Section 14: Transport Information

DOT Other:	DOT Ground: CONSUMER COMMODITY ORM-D or LIMITED QUANTITY
IMDG Shipping Name:	AEROSOLS, FLAMMABLE
IMDG UN Number:	UN1950
IMDG Hazard Class:	2.1
IMDG Other:	LTD. QTY.
IATA Shipping Name:	AEROSOLS, FLAMMABLE
IATA UN Number:	UN1950
IATA Hazard Class:	2.1
IATA Other:	LTD. QTY.

Section 15: Regulatory Information

Safety, health and environmental regulations specific for the product:

Regulatory - Product Based:

Notes 1:

Legend:
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
CHINA - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

EPA Pesticide Registration Number: Not applicable

Section 313 Toxic Release Form:

SARA 313:
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:
Chemical Name: ZINC OXIDE - 1314-13-2
CAS-No: 1314-13-2
Weight %*: 1-10
SARA 313 - Threshold Values %: 1.0

Chemical Name: TOLUENE - 108-88-3
CAS-No: 108-88-3
Weight %*: 1-10
SARA 313 - Threshold Values %: 1.0

Chemical Name: METHYL ISOBUTYL KETONE - 108-10-1
CAS-No: 108-10-1
Weight %*: 1-10
SARA 313 - Threshold Values %: 1.0

Chemical Name: ETHYLENE GLYCOL MONOBUTYL ETHE - 112-07-2
CAS-No: 112-07-2
Weight %*: 1-10
SARA 313 - Threshold Values %: 1.0

Chemical Name: XYLENE - 1330-20-7
CAS-No: 1330-20-7
Weight %*: 1-10
SARA 313 - Threshold Values %: 1.0

Section 312 Hazard Category:

SARA 311/312 Hazard Categories:
Acute Health Hazard: Yes
Chronic Health Hazard: Yes
Fire Hazard: Yes
Sudden Release of Pressure Hazard: Yes
Reactive Hazard: No

Section 116.4 part 117: Clean Water Act:

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):
Chemical Name: BUTYL ACETATE
CAS: 123-86-4
CWA - Reportable Quantities: 5000 lb
CWA - Hazardous Substances: Listed

Chemical Name: ZINC OXIDE
CAS: 1314-13-2
CWA - Toxic Pollutants: Listed

Chemical Name: TOLUENE
CAS: 108-88-3
CWA - Reportable Quantities:1000 lb
CWA - Toxic Pollutants: Listed
CWA - Priority Pollutants: Listed
CWA - Hazardous Substances: Listed

Chemical Name: XYLENE
CAS: 1330-20-7
CWA - Reportable Quantities: 100 lb
CWA - Hazardous Substances: Listed

Section 304:

CERCLA:
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):
Chemical Name: ACETONE
CAS: 67-64-1
Hazardous Substances RQs: 5000 lb
RQ:
RQ 5000 lb final RQ
RQ 2270 kg final RQ

Chemical Name: BUTYL ACETATE
CAS: 123-86-4
Hazardous Substances RQs: 5000 lb
RQ:
RQ 5000 lb final RQ
RQ 2270 kg final RQ

Chemical Name: TOLUENE
CAS: 108-88-3
Hazardous Substances RQs: 1000 lb 1 lb
RQ:
RQ 1000 lb final RQ
RQ 454 kg final RQ RQ 1 lb final RQ
RQ 0.454 kg final RQ

Chemical Name: METHYL ISOBUTYL KETONE
CAS: 108-10-1
Hazardous Substances RQs: 5000 lb
RQ:
RQ 5000 lb final RQ
RQ 2270 kg final RQ

Chemical Name: XYLENE
CAS: 1330-20-7
Hazardous Substances RQs: 100 lb
RQ:
RQ 100 lb final RQ
RQ 45.4 kg final RQ

Chemical Name: 2-BUTANONE
CAS: 78-93-3
Hazardous Substances RQs: 5000 lb
RQ:
RQ 5000 lb final RQ
RQ 2270 kg final RQ

State:

California Proposition 65:
This product contains the following Proposition 65 chemicals:
Chemical Name: TOLUENE - 108-88-3
California Prop. 65:
Developmental
Female Reproductive

Chemical Name: METHYL ISOBUTYL KETONE - 108-10-1
California Prop. 65:
Carcinogen
Developmental

Chemical Name: SILICA, CRYSTALLINE - 14808-60-7
California Prop. 65

California Prop. 65:
Carcinogen

U.S. State Right-to-Know Regulations:
Chemical Name: ACETONE
CAS: 67-64-1
New Jersey: Listed
Massachusetts: Listed
Pennsylvania: Listed

Chemical Name: BUTYL ACETATE
CAS: 123-86-4
New Jersey: Listed
Massachusetts: Listed
Pennsylvania: Listed

Chemical Name: ZINC OXIDE
CAS: 1314-13-2
New Jersey: Listed
Massachusetts: Listed
Pennsylvania: Listed

Chemical Name: TALC
CAS: 14807-96-6
New Jersey: Listed
Massachusetts: Listed
Pennsylvania: Listed

Chemical Name: MICA
CAS: 12001-26-2
New Jersey: Listed
Massachusetts: Listed
Pennsylvania: Listed

Chemical Name: TOLUENE
CAS: 108-88-3
New Jersey: Listed
Massachusetts: Listed
Pennsylvania: Listed

Chemical Name: METHYL ISOBUTYL KETONE
CAS: 108-10-1
New Jersey: Listed
Massachusetts: Listed
Pennsylvania: Listed

Chemical Name: ETHYLENE GLYCOL MONOBUTYL ETHE
CAS: 112-07-2
New Jersey: Listed
Pennsylvania: Listed

Chemical Name: XYLENE
CAS: 1330-20-7
New Jersey: Listed
Massachusetts: Listed
Pennsylvania: Listed

Chemical Name: 2-BUTANONE
CAS: 78-93-3
New Jersey: Listed
Massachusetts: Listed
Pennsylvania: Listed

Chemical Name: SILICA, CRYSTALLINE

CAS: 14808-60-7
New Jersey: Listed
Massachusetts: Listed
Pennsylvania: Listed

Canada WHMIS:

Canada:
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Regulatory - Ingredient Based:

ACETONE:

TSCA 8(b): Inventory Status:	Listed
Canada DSL:	Listed
Canada NDSL:	Listed
EINECS (European Inventory of Existing Commercial Chemical Substances):	EINECS/ELINCS: Listed
Japan Chemical Inventory Status:	ENCS: Listed
IECSC:	Listed
Korean Chemical Inventory Status:	Listed
Philippines Chemical Inventory Status:	Listed
Australia Chemical Inventory Status:	Listed

PROPANE/ISOBUTANE/N-BUTANE:

TSCA 8(b): Inventory Status:	Listed
Canada DSL:	Listed
Canada NDSL:	Listed
EINECS (European Inventory of Existing Commercial Chemical Substances):	EINECS/ELINCS: Listed
Japan Chemical Inventory Status:	ENCS: Not listed
IECSC:	Listed
Korean Chemical Inventory Status:	Listed
Philippines Chemical Inventory Status:	Listed
Australia Chemical Inventory Status:	Listed

POLY(Bisphenol A-co-epichloroh:

TSCA 8(b): Inventory Status:	Listed
Canada DSL:	Listed
Canada NDSL:	Listed

EINECS (European Inventory of Existing Commercial Chemical Substances):	EINECS/ELINCS: Not listed
Japan Chemical Inventory Status:	ENCS: Listed
IECSC:	Listed
Korean Chemical Inventory Status:	Listed
Philippines Chemical Inventory Status:	Listed
Australia Chemical Inventory Status:	Listed

1-METHYOXY-2-PROPANOL ACETATE:

TSCA 8(b): Inventory Status:	Listed
Canada DSL:	Listed
Canada NDSL:	Listed
EINECS (European Inventory of Existing Commercial Chemical Substances):	EINECS/ELINCS: Listed
Japan Chemical Inventory Status:	ENCS: Listed
IECSC:	Listed
Korean Chemical Inventory Status:	Listed
Philippines Chemical Inventory Status:	Listed
Australia Chemical Inventory Status:	Listed

BUTYL ACETATE:

TSCA 8(b): Inventory Status:	Listed
Canada DSL:	Listed
Canada NDSL:	Listed
EINECS (European Inventory of Existing Commercial Chemical Substances):	EINECS/ELINCS: Listed
Japan Chemical Inventory Status:	ENCS: Listed
IECSC:	Listed
Korean Chemical Inventory Status:	Listed
Philippines Chemical Inventory Status:	Listed
Australia Chemical Inventory Status:	Listed

ZINC OXIDE:

TSCA 8(b): Inventory Status:	Listed

Canada DSL:	Listed
Canada NDSL:	Listed
EINECS (European Inventory of Existing Commercial Chemical Substances):	EINECS/ELINCS: Listed
Japan Chemical Inventory Status:	ENCS: Listed
IECSC:	Listed
Korean Chemical Inventory Status:	Listed
Philippines Chemical Inventory Status:	Listed
Australia Chemical Inventory Status:	Listed

TALC:

TSCA 8(b): Inventory Status:	Listed
Canada DSL:	Listed
Canada NDSL:	Listed
EINECS (European Inventory of Existing Commercial Chemical Substances):	EINECS/ELINCS: Listed
Japan Chemical Inventory Status:	ENCS: Listed
IECSC:	Listed
Korean Chemical Inventory Status:	Listed
Philippines Chemical Inventory Status:	Listed
Australia Chemical Inventory Status:	Listed

MICA:

TSCA 8(b): Inventory Status:	Listed
Canada DSL:	Listed
Canada NDSL:	Listed
EINECS (European Inventory of Existing Commercial Chemical Substances):	EINECS/ELINCS: Not listed
Japan Chemical Inventory Status:	ENCS: Not listed
IECSC:	Listed
Korean Chemical Inventory Status:	Listed
Philippines Chemical Inventory Status:	Listed

Australia Chemical Inventory Status:	Listed

TOLUENE:

TSCA 8(b): Inventory Status:	Listed
Canada DSL:	Listed
Canada NDSL:	Listed
EINECS (European Inventory of Existing Commercial Chemical Substances):	EINECS/ELINCS: Listed
Japan Chemical Inventory Status:	ENCS: Listed
IECSC:	Listed
Korean Chemical Inventory Status:	Listed
Philippines Chemical Inventory Status:	Listed
Australia Chemical Inventory Status:	Listed

METHYL ISOBUTYL KETONE:

TSCA 8(b): Inventory Status:	Listed
Canada DSL:	Listed
Canada NDSL:	Listed
EINECS (European Inventory of Existing Commercial Chemical Substances):	EINECS/ELINCS: Listed
Japan Chemical Inventory Status:	ENCS: Listed
IECSC:	Listed
Korean Chemical Inventory Status:	Listed
Philippines Chemical Inventory Status:	Listed
Australia Chemical Inventory Status:	Listed

ETHYLENE GLYCOL MONOBUTYL ETHE:

TSCA 8(b): Inventory Status:	Listed
Canada DSL:	Listed
Canada NDSL:	Listed
EINECS (European Inventory of Existing Commercial Chemical Substances):	EINECS/ELINCS: Listed
Japan Chemical Inventory Status:	ENCS: Listed
IECSC:	Listed

Korean Chemical Inventory Status:	Listed
Philippines Chemical Inventory Status:	Listed
Australia Chemical Inventory Status:	Listed

XYLENE:

TSCA 8(b): Inventory Status:	Listed
Canada DSL:	Listed
Canada NDSL:	Listed
EINECS (European Inventory of Existing Commercial Chemical Substances):	EINECS/ELINCS: Listed
Japan Chemical Inventory Status:	ENCS: Listed
IECSC:	Listed
Korean Chemical Inventory Status:	Listed
Philippines Chemical Inventory Status:	Listed
Australia Chemical Inventory Status:	Listed

2-BUTANONE:

TSCA 8(b): Inventory Status:	Listed
Canada DSL:	Listed
Canada NDSL:	Listed
EINECS (European Inventory of Existing Commercial Chemical Substances):	EINECS/ELINCS: Listed
Japan Chemical Inventory Status:	ENCS: Listed
IECSC:	Listed
Korean Chemical Inventory Status:	Listed
Philippines Chemical Inventory Status:	Listed
Australia Chemical Inventory Status:	Listed

SILICA, CRYSTALLINE:

TSCA 8(b): Inventory Status:	Listed
Canada DSL:	Listed
Canada NDSL:	Listed
EINECS (European Inventory of Existing Commercial Chemical Substances):	EINECS/ELINCS: Listed

Japan Chemical Inventory Status:	ENCS: Listed
IECSC:	Listed
Korean Chemical Inventory Status:	Listed
Philippines Chemical Inventory Status:	Listed
Australia Chemical Inventory Status:	Listed

Section 16: Additional Information

Creation Date: 2018-07-18

Revision Date: 2018-12-04 16:01:51

HMIS:

Health	**2***
Flammability	**4**
Reactivity	**1**
PPE	**B**

Chronic Health Hazard

NFPA:

Other Information: