SAFETY DATA SHEET

1. Product and Company Identification

Product identifier **Marsh Spray Stencil Ink**

Other means of identification 30394 (Tan Markover), 30395 (Black), 30396 (Blue), 30397 (Green), 30398 (Orange), 30399 (Red), 30400 (White), 30401 (Yellow), 5XT12 (Tan Markover), 5XT13 (Black), 5XT14 (White)

Synonyms Not available

Recommended use Spray Ink

Recommended restrictions None known.

Manufacturer information

MSSC, LLC
926 McDonough Lake Road, Unit E
Collinsville, IL 62234 US
Phone: (618) 343-1006
Fax: (618) 343-1016
Emergency Phone: 1-800-535-5053 (Infotrac)
Emergency Phone: 352-323-3500 (Int'l Collect)

Supplier See above.

2. Hazards Identification

Physical hazards	Flammable aerosols	Category 1
	Gases under pressure	Liquefied gas
Health hazards	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
	Aspiration hazard	Category 1

Environmental hazards Not classified.

WHMIS 2015 defined hazards Not classified

Label elements

Signal word Danger

Hazard statement

Extremely flammable aerosol.
Contains gas under pressure; may explode if heated.
Causes skin irritation.
Causes serious eye irritation.
May cause drowsiness or dizziness.
May be fatal if swallowed and enters airways.

Precautionary statement

Prevention

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use.
Avoid breathing mist or vapor.
Use only outdoors or in a well-ventilated area.
Wash thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.

Response

IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Specific treatment (see information on this label).
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting.

Storage

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

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

WHMIS 2015: Health Hazard(s) not otherwise classified (HHNOC)	None known
WHMIS 2015: Physical Hazard(s) not otherwise classified (PHNOC)	None known
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

3. Composition/Information on Ingredients

Mixture

Chemical name	Common name and synonyms	CAS number	%
Acetone		67-64-1	28 - 38
Petroleum gases, liquefied, sweetened		68476-86-8	15 - 18
Propane		74-98-6	15 - 18
Solvent naptha (petroleum), light aliphatic		64742-89-8	9 -11
Hydrous magnesium silicate		14807-96-6	2 - 6
Limestone		1317-65-3	2 - 4
2-Pentanone, 4-hydroxy-4-methyl-		123-42-2	0.2 - 5
Titanium oxide		13463-67-7	0 - 4
Solvent naphtha (petroleum), light aromatic		64742-95-6	0.8 - 3
2-Propanol, 1-methoxy-, acetate		108-65-6	1.4 - 1.9
Quaternary ammonium compounds, bis(hydrogenated tallow alkyl) dimethyl, salts with bentonite		68953-58-2	0.8 - 1.2
Carbon black		1333-86-4	0 - .91

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First Aid Measures

Inhalation	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
Skin contact	IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Specific treatment (see information on this label).
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.
Most important symptoms/effects, acute and delayed	Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.
Indication of immediate medical attention and special treatment needed	Symptoms may be delayed.
General information	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. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire Fighting Measures

Suitable extinguishing media	Water fog. Alcohol resistant foam. Carbon dioxide.
Unsuitable 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.

Special protective equipment and precautions for firefighters	Not available.
Fire-fighting equipment/instructions	In case of fire: Stop leak if safe to do so. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Extremely flammable aerosol.
Hazardous combustion products	May include and are not limited to: Oxides of carbon.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid breathing mist or vapor. Ventilate closed spaces before entering them. Emergency personnel need self-contained breathing equipment. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	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). Dike the spilled material, where this is possible. 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. Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.
Environmental precautions	Do not discharge into lakes, streams, ponds or public waters.

7. Handling and Storage

Precautions for safe handling	Keep away from heat/sparks/open flames/hot surfaces. - No smoking. All equipment used when handling the product must be grounded. Avoid contact with eyes, skin, and clothing. Wear appropriate personal protective equipment. Use only in well-ventilated areas. Avoid breathing mist or vapor. Observe good industrial hygiene practices. Wash thoroughly after handling. When handling, do not eat, drink or smoke.
Conditions for safe storage, including any incompatibilities	Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Keep away from heat, sparks and open flame. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Keep out of reach of children. Store locked up.

8. Exposure Controls/Personal Protection

Occupational exposure limits

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Type	Value	Form
2-Pentanone, 4-hydroxy-4-methyl- (CAS 123-42-2)	TWA	238 mg/m3 50 ppm	
Acetone (CAS 67-64-1)	STEL	1800 mg/m3 750 ppm	
	TWA	1200 mg/m3 500 ppm	
Carbon black (CAS 1333-86-4)	TWA	3.5 mg/m3	
Hydrous magnesium silicate (CAS 14807-96-6)	TWA	2 mg/m3	Respirable particles.
Limestone (CAS 1317-65-3)	TWA	10 mg/m3	
Propane (CAS 74-98-6)	TWA	1000 ppm	
Solvent naphtha (petroleum), light aromatic (CAS 64742-95-6)	TWA	1590 mg/m3 400 ppm	

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Type	Value	Form
Solvent naptha (petroleum), light aliphatic (CAS 64742-89-8)	TWA	1590 mg/m3	
		400 ppm	
Titanium oxide (CAS 13463-67-7)	TWA	10 mg/m3	

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Type	Value	Form
2-Pentanone, 4-hydroxy-4-methyl- (CAS 123-42-2)	TWA	50 ppm	
2-Propanol, 1-methoxy-, acetate (CAS 108-65-6)	STEL	75 ppm	
	TWA	50 ppm	
Acetone (CAS 67-64-1)	STEL	500 ppm	
	TWA	250 ppm	
Carbon black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable
Hydrous magnesium silicate (CAS 14807-96-6)	TWA	2 mg/m3	Respirable.
Limestone (CAS 1317-65-3)	STEL	20 mg/m3	Total dust.
	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Total dust.
Propane (CAS 74-98-6)	TWA	1000 ppm	
Titanium oxide (CAS 13463-67-7)	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Total dust.

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

Components	Type	Value	Form
2-Pentanone, 4-hydroxy-4-methyl- (CAS 123-42-2)	TWA	50 ppm	
Acetone (CAS 67-64-1)	STEL	500 ppm	
	TWA	250 ppm	
Carbon black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable fraction.
Hydrous magnesium silicate (CAS 14807-96-6)	TWA	2 mg/m3	Respirable fraction.
Titanium oxide (CAS 13463-67-7)	TWA	10 mg/m3	

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Type	Value	Form
2-Pentanone, 4-hydroxy-4-methyl- (CAS 123-42-2)	TWA	50 ppm	
2-Propanol, 1-methoxy-, acetate (CAS 108-65-6)	TWA	270 mg/m3	
		50 ppm	
Acetone (CAS 67-64-1)	STEL	750 ppm	
	TWA	500 ppm	
Carbon black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable fraction.
Hydrous magnesium silicate (CAS 14807-96-6)	TWA	2 fibers/ml	

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Type	Value	Form
		2 mg/m3	Respirable fraction.
Propane (CAS 74-98-6)	TWA	1000 ppm	
Titanium oxide (CAS 13463-67-7)	TWA	10 mg/m3	

Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

Components	Type	Value	Form
2-Pentanone, 4-hydroxy-4-methyl- (CAS 123-42-2)	TWA	238 mg/m3	
		50 ppm	
Acetone (CAS 67-64-1)	STEL	2380 mg/m3	
		1000 ppm	
	TWA	1190 mg/m3	
		500 ppm	
Carbon black (CAS 1333-86-4)	TWA	3.5 mg/m3	
Hydrous magnesium silicate (CAS 14807-96-6)	TWA	3 mg/m3	Respirable dust.
Limestone (CAS 1317-65-3)	TWA	10 mg/m3	Total dust.
Propane (CAS 74-98-6)	TWA	1800 mg/m3	
		1000 ppm	
Solvent naphtha (petroleum), light aromatic (CAS 64742-95-6)	TWA	1590 mg/m3	
		400 ppm	
Solvent naptha (petroleum), light aliphatic (CAS 64742-89-8)	TWA	1590 mg/m3	
		400 ppm	
Titanium oxide (CAS 13463-67-7)	TWA	10 mg/m3	Total dust.

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

Components	Type	Value	Form
2-Pentanone, 4-hydroxy-4-methyl- (CAS 123-42-2)	PEL	240 mg/m3	
		50 ppm	
Acetone (CAS 67-64-1)	PEL	2400 mg/m3	
		1000 ppm	
Carbon black (CAS 1333-86-4)	PEL	3.5 mg/m3	
Limestone (CAS 1317-65-3)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
Propane (CAS 74-98-6)	PEL	1800 mg/m3	
		1000 ppm	
Solvent naphtha (petroleum), light aromatic (CAS 64742-95-6)	PEL	400 mg/m3	
		100 ppm	
Solvent naptha (petroleum), light aliphatic (CAS 64742-89-8)	PEL	400 mg/m3	
		100 ppm	
Titanium oxide (CAS 13463-67-7)	PEL	15 mg/m3	Total dust.

US. OSHA Table Z-3 (29 CFR 1910.1000)

Components	Type	Value	Form
Hydrous magnesium silicate (CAS 14807-96-6)	TWA	0.1 mg/m3	Respirable.

US. OSHA Table Z-3 (29 CFR 1910.1000)

Components	Type	Value	Form
		20 mppcf	
		2.4 mppcf	Respirable.
Titanium oxide (CAS 13463-67-7)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
2-Pentanone, 4-hydroxy-4-methyl- (CAS 123-42-2)	TWA	50 ppm	
Acetone (CAS 67-64-1)	STEL	500 ppm	
	TWA	250 ppm	
Carbon black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable fraction.
Hydrous magnesium silicate (CAS 14807-96-6)	TWA	2 mg/m3	Respirable fraction.
Titanium oxide (CAS 13463-67-7)	TWA	10 mg/m3	

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
2-Pentanone, 4-hydroxy-4-methyl- (CAS 123-42-2)	TWA	240 mg/m3	
		50 ppm	
Acetone (CAS 67-64-1)	TWA	590 mg/m3	
		250 ppm	
Carbon black (CAS 1333-86-4)	TWA	0.1 mg/m3	
Hydrous magnesium silicate (CAS 14807-96-6)	TWA	2 mg/m3	Respirable.
Limestone (CAS 1317-65-3)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total
Propane (CAS 74-98-6)	TWA	1800 mg/m3	
		1000 ppm	
Solvent naphtha (petroleum), light aromatic (CAS 64742-95-6)	TWA	400 mg/m3	
		100 ppm	
Solvent naptha (petroleum), light aliphatic (CAS 64742-89-8)	TWA	400 mg/m3	
		100 ppm	

US. AIHA Workplace Environmental Exposure Level (WEEL) Guides

Components	Type	Value
2-Propanol, 1-methoxy-, 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	*

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

Appropriate engineering controls Ensure adequate ventilation.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection	
Hand protection	Wear appropriate chemical resistant gloves. Confirm with a reputable supplier first.
Other	Wear appropriate chemical resistant clothing. As required by employer code.
Respiratory protection	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134), CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2).
Thermal hazards	Not applicable.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

9. Physical and Chemical Properties

Appearance	Aerosol
Physical state	Liquid.
Form	Liquid
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	-44 - 410 °F (-42.22 - 210 °C)
Pour point	Not available.
Specific gravity	0.72
Partition coefficient (n-octanol/water)	Not available.
Flash point	-248.8 °F (-156.0 °C) Pensky-Martens Closed Cup
Evaporation rate	> 1 (BuAc=1)
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	> 1
Flammability limit - upper (%)	< 12.8
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	Partial
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

10. Stability and Reactivity

Reactivity	May react with incompatible materials.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Do not mix with other chemicals. Heat.
Incompatible materials	Acids. Strong oxidizing agents.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon.

11. Toxicological Information

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

Information on likely routes of exposure

Ingestion May cause stomach distress, nausea or vomiting. Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.

Inhalation May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.

Skin contact Causes skin irritation.

Eye contact Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics Aspiration may cause pulmonary edema and pneumonitis.
May cause drowsiness and dizziness. Headache. Nausea, vomiting.
Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
Skin irritation. May cause redness and pain.

Information on toxicological effects

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

Components	Species	Test Results
2-Pentanone, 4-hydroxy-4-methyl- (CAS 123-42-2)		
Acute		
Dermal		
LD50	Rabbit	13500 mg/kg, Sigma Aldrich
		14.5 ml/kg, 24 Hours, ECHA
	Rat	> 1875 mg/kg, 24 Hours, ECHA
Inhalation		
LC50	Rat	10 mg/L, 4 h, Sigma Aldrich
Oral		
LD50	Rat	3002 mg/kg
		2520 mg/kg, Sigma Aldrich
		4 g/kg, Spectrum Chemical
2-Propanol, 1-methoxy-, acetate (CAS 108-65-6)		
Acute		
Dermal		
LD50	Rabbit	> 5000 mg/kg
	Rat	> 2000 mg/kg, 24 Hours
Inhalation		
LC50	Rat	> 5320 ppm, 4 hours
Oral		
LD50	Rat	> 5000 mg/kg
		> 14.1 ml
		8532 mg/kg
Acetone (CAS 67-64-1)		
Acute		
Dermal		
LD50	Guinea pig	> 7426 mg/kg, 24 Hours, ECHA
		> 9.4 ml/kg, 24 Hours, ECHA
	Rabbit	> 15800 mg/kg, 24 Hours, ECHA
		> 7426 mg/kg, 24 Hours, ECHA
		> 20 ml/kg, 24 Hours, ECHA
		> 9.4 ml/kg, 24 Hours, ECHA
Inhalation		
LC50	Rat	55700 ppm, 3 Hours, ECHA
		50100 mg/m3, 8 hours, American Industrial Hygiene Association Journal
		132 mg/L, 3 Hours, ECHA

Components	Species	Test Results
		76 mg/L, 4 Hours, ECHA/HSDB
		50.1 mg/L, 4 Hours, ECHA
		50.1 mg/L, 8 Hours
Oral		
LD50	Mouse	3000 mg/kg, Pharmaceutical Chemistry Journal
	Rat	5800 mg/kg, Journal of Toxicology and Environmental Health
		9.1 ml/kg, ECHA
		8.5 ml/kg, ECHA
		5.6 ml/kg, ECHA
		2.2 ml/kg, ECHA
Carbon black (CAS 1333-86-4)		
Acute		
Dermal		
LD50	Rabbit	> 3000 mg/kg
Inhalation		
LC50	Not available	
Oral		
LD50	Rat	> 15400 mg/kg
		> 10000 mg/kg, ECHA
		> 8000 mg/kg, ECHA/HSDB
Hydrous magnesium silicate (CAS 14807-96-6)		
Acute		
Dermal		
LD50	Rat	> 2000 mg/kg, ECHA
Inhalation		
LC50	Rat	> 2.1 mg/L, 4 h, ECHA
Oral		
LD50	Rat	> 5000 mg/kg, ECHA
Limestone (CAS 1317-65-3)		
Acute		
Dermal		
LD50	Not available	
Inhalation		
LC50	Not available	
Oral		
LD50	Rat	6450 mg/kg, SPI Pharma
Petroleum gases, liquefied, sweetened (CAS 68476-86-8)		
Acute		
Dermal		
LD50	Not available	
Inhalation		
LC50	Mouse	539600 ppm, 120 Minutes, ECHA
		520400 ppm, 120 Minutes, ECHA
		1237 mg/L, 120 Minutes, ECHA
		57 %, 120 Minutes, ECHA
		52 %, 120 Minutes, ECHA
	Rat	> 800000 ppm, 10 Minutes, ECHA
		1442738 mg/m3, 10 Minutes, ECHA
		1354944 mg/m3, 10 Minutes, ECHA
		570000 ppm, 10 Minutes, ECHA

Components	Species	Test Results
		1443 mg/L, 10 Minutes, ECHA
		1355 mg/L, 10 Minutes, ECHA
Oral		
LD50	Not available	
Propane (CAS 74-98-6)		
Acute		
Dermal		
LD50	Not available	
Inhalation		
LC50	Mouse	539600 ppm, 120 Minutes, ECHA
		520400 ppm, 120 Minutes, ECHA
		1237 mg/L, 120 Minutes
		57 %, 120 Minutes, ECHA
		52 %, 120 Minutes
	Rat	> 12000000 ppm, 4 hours
		> 800000 ppm, 10 Minutes, ECHA
		> 1464 mg/L, 15 Minutes, HSDB
		1442738 mg/m3, 10 Minutes, ECHA
		1354944 mg/m3, 10 Minutes, ECHA
		570000 ppm, 10 Minutes, ECHA
		1355 mg/L, 10 Minutes
Oral		
LD50	Not available	
Quaternary ammonium compounds, bis(hydrogenated tallow alkyl) dimethyl, salts with bentonite (CAS 68953-58-2)		
Acute		
Dermal		
LD50	Rat	> 2000 mg/kg, BYK Additives Inc.
Inhalation		
LC50	Rat	> 200 mg/L, BYK Additives Inc.
		12.6 mg/l/4h, SCBT
Oral		
LD50	Rat	5000 mg/kg, SCBT
Solvent naphtha (petroleum), light aromatic (CAS 64742-95-6)		
Acute		
Dermal		
LD50	Rabbit	> 1900 mg/kg, 24 Hours
		3000 mg/kg
Inhalation		
LC50	Rat	> 4980 mg/m3, 4 Hours
		> 5 mg/L, 4 Hours
		5.2 mg/l/4h
Oral		
LD50	Rat	> 25 ml/kg
		4820 mg/kg
		4700 mg/kg
Solvent naptha (petroleum), light aliphatic (CAS 64742-89-8)		
Acute		
Dermal		
LD50	Rabbit	> 6000 mg/kg, 24 Hours, ECHA
		> 3750 mg/kg, 24 Hours, ECHA
		> 3000 mg/kg, 24 Hours, ECHA
		> 2000 mg/kg, ECHA

Components	Species	Test Results
		> 2000 mg/kg, 24 Hours, ECHA
		> 1900 mg/kg, 24 Hours, ECHA
Inhalation		
LC50	Rat	> 8530 mg/m3, 4 Hours, ECHA
		> 7970 mg/m3, 4 Hours, ECHA
		> 7630 mg/m3, 4 Hours, ECHA
		> 7300 mg/m3, 4 Hours, ECHA
		> 5830 mg/m3, 4 Hours, ECHA
		> 5740 mg/m3, 4 Hours, ECHA
		> 5610 mg/m3, 4 Hours, ECHA
		> 5470 mg/m3, 4 Hours, ECHA
		> 5300 mg/m3, 4 Hours, ECHA
		> 5280 mg/m3, 4 Hours, ECHA
		> 5260 mg/m3, 4 Hours, ECHA
		> 5250 mg/m3, 4 Hours, ECHA
		> 5240 mg/m3, 4 Hours, ECHA
		> 5220 mg/m3, 4 Hours, ECHA
		> 5200 mg/m3, 4 Hours, ECHA
		> 5170 mg/m3, 4 Hours, ECHA
		> 5160 mg/m3, 4 Hours, ECHA
		> 5100 mg/m3, 4 Hours, ECHA
		> 5080 mg/m3, 4 Hours, ECHA
		> 5050 mg/m3, 4 Hours, ECHA
		> 5040 mg/m3, 4 Hours, ECHA
		> 5020 mg/m3, 4 Hours, ECHA
		> 5000 mg/m3, 4 Hours, ECHA
		> 4980 mg/m3, 4 Hours, ECHA
		> 4970 mg/m3, 4 Hours, ECHA
		> 4420 mg/m3, 4 Hours, ECHA
		> 5.4 mg/L, 4 Hours, ECHA
		> 5.1 mg/L, 4 Hours, ECHA
		> 5.1 mg/L, 4 Hours, ECHA
		> 5 mg/L, 4 Hours, ECHA
		> 5 mg/L, 4 Hours, ECHA
		>= 5060 mg/m3, 4 Hours, ECHA
Oral		
LD50	Rat	> 7000 mg/kg, ECHA
		> 6000 mg/kg, ECHA
		> 5570 mg/kg, ECHA
		> 5200 mg/kg, ECHA
		> 5000 mg/kg, ECHA
		> 4800 mg/kg, ECHA
		> 4500 mg/kg, ECHA
		> 25 ml/kg, HSDB
		14063 mg/kg, ECHA
		6620 mg/kg, ECHA
		5800 mg/kg, ECHA
		5390 mg/kg, ECHA
		4820 mg/kg, ECHA

Components	Species	Test Results
Titanium oxide (CAS 13463-67-7)		
Acute		
Dermal		
LD50	Not available	
Inhalation		
LC50	Rat	> 6.8 mg/L, 4 Hours, ECHA
		> 3.6 mg/l/4h, ECHA
		> 3.6 mg/L, 4 Hours, ECHA
		> 2.3 mg/L, 4 Hours, ECHA
		5.1 mg/L, 4 Hours, ECHA
		3.4 mg/L, 4 Hours, ECHA
Oral		
LD50	Mouse	> 5000 mg/kg, ECHA
	Rat	> 25000 mg/kg, ECHA
		> 11000 mg/kg, ECHA
		> 5000 mg/kg, ECHA
		> 2000 mg/kg, ECHA

Skin corrosion/irritation Causes skin irritation.

Exposure minutes Not available.

Erythema value Not available.

Oedema value Not available.

Serious eye damage/eye irritation Causes serious eye irritation.

Corneal opacity value Not available.

Iris lesion value Not available.

Conjunctival reddening value Not available.

Conjunctival oedema value Not available.

Recover days Not available.

Respiratory or skin sensitization

Canada - Alberta OELs: Irritant

2-Pentanone, 4-hydroxy-4-methyl- (CAS 123-42-2)	Irritant
Limestone (CAS 1317-65-3)	Irritant
Titanium oxide (CAS 13463-67-7)	Irritant

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Mutagenicity Not classified.

Carcinogenicity Not classified. Contains < 3% (w/w) DMSO-extract

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Teratogenicity Not available.

Specific target organ toxicity - single exposure May cause drowsiness and dizziness.

Specific target organ toxicity - repeated exposure Not classified.

Aspiration hazard May be fatal if swallowed and enters airways.

Chronic effects Prolonged exposure may cause chronic effects.

12. Ecological Information

Ecotoxicity See below

Ecotoxicological data

Components		Species	Test Results
2-Pentanone, 4-hydroxy-4-methyl- (CAS 123-42-2)			
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	420 mg/L, 96 hours
2-Propanol, 1-methoxy-, acetate (CAS 108-65-6)			
Crustacea	EC50	Daphnia	500 mg/L, 48 Hours
Acetone (CAS 67-64-1)			
Crustacea	EC50	Daphnia	13999 mg/L, 48 Hours
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	10294 - 17704 mg/L, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	4740 - 6330 mg/L, 96 hours
Solvent naphtha (petroleum), light aromatic (CAS 64742-95-6)			
Crustacea	EC50	Daphnia	6.14 mg/L, 48 Hours
Aquatic			
Crustacea	EC50	Water flea (Daphnia pulex)	2.7 - 5.1 mg/L, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	8.8 mg/L, 96 hours
			8.8 mg/L, 96 hours
Solvent naptha (petroleum), light aliphatic (CAS 64742-89-8)			
Algae	IC50	Algae	4700 mg/L, 72 Hours
Aquatic			
Crustacea	EC50	Water flea (Daphnia pulex)	2.7 - 5.1 mg/L, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	8.8 mg/L, 96 hours
			8.8 mg/L, 96 hours
Titanium oxide (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

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Mobility in soil

Mobility in general No data available.

Other adverse effects Not available.

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

13. Disposal Considerations

Disposal instructions 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 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 re-use empty containers.

14. Transport Information

Transport of Dangerous Goods (TDG) Proof of Classification In accordance with Part 2.2.1 (SOR/2014-152) of the Transportation of Dangerous Goods Regulations, we certify that the classification of this product is correct as of the SDS date of issue.

U.S. Department of Transportation (DOT)

Basic shipping requirements:

UN number UN1950

Proper shipping name Aerosols, flammable

Hazard class 2.1

Special provisions	N82
Packaging exceptions	Limited Quantity 1L

Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

UN number	UN1950
Proper shipping name	AEROSOLS, flammable
Hazard class	2.1
Special provisions	80, 107
Packaging exceptions	Limited Quantity 1L

DOT

TDG

15. Regulatory Information

Canadian federal regulations This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

Canada CEPA Schedule I: Listed substance

Hydrous magnesium silicate (CAS 14807-96-6)	Listed.
Titanium oxide (CAS 13463-67-7)	Listed.

Canada DSL Challenge Substances: Listed substance

Carbon black (CAS 1333-86-4)	Listed.

Canada NPRI VOCs with Additional Reporting Requirements: Mass reporting threshold/Identification Number

2-Propanol, 1-methoxy-, acetate (CAS 108-65-6)	1 TONNES
Propane (CAS 74-98-6)	1 TONNES
Solvent naphtha (petroleum), light aromatic (CAS 64742-95-6)	1 TONNES
Solvent naptha (petroleum), light aliphatic (CAS 64742-89-8)	1 TONNES

Canada Priority Substances List (Second List): Listed substance

Hydrous magnesium silicate (CAS 14807-96-6)	Listed.
Titanium oxide (CAS 13463-67-7)	Listed.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Precursor Control Regulations

Acetone (CAS 67-64-1)	Class B

WHMIS 2015 Exemptions Not applicable

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.
Propane (CAS 74-98-6)	Listed.

US. 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 - No
Fire Hazard - Yes
Pressure Hazard - Yes
Reactivity Hazard - No

SARA 302 Extremely hazardous substance No

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Solvent naptha (petroleum), light aliphatic	64742-89-8	9 -11

Other federal regulations

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

Not regulated.

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

Propane (CAS 74-98-6)

US state regulations See below

US - California Hazardous Substances (Director's): Listed substance

2-Pentanone, 4-hydroxy-4-methyl- (CAS 123-42-2)	Listed.
Acetone (CAS 67-64-1)	Listed.
Carbon black (CAS 1333-86-4)	Listed.
Hydrous magnesium silicate (CAS 14807-96-6)	Listed.
Solvent naphtha (petroleum), light aromatic (CAS 64742-95-6)	Listed.
Solvent naptha (petroleum), light aliphatic (CAS 64742-89-8)	Listed.

US - Illinois Chemical Safety Act: Listed substance

Acetone (CAS 67-64-1)
Propane (CAS 74-98-6)

US - Louisiana Spill Reporting: Listed substance

Acetone (CAS 67-64-1)	Listed.
Propane (CAS 74-98-6)	Listed.

US - Minnesota Haz Subs: Listed substance

2-Pentanone, 4-hydroxy-4-methyl- (CAS 123-42-2)	Listed.
Acetone (CAS 67-64-1)	Listed.
Carbon black (CAS 1333-86-4)	Listed.
Hydrous magnesium silicate (CAS 14807-96-6)	Listed.
Limestone (CAS 1317-65-3)	Listed.
Propane (CAS 74-98-6)	Listed.
Solvent naphtha (petroleum), light aromatic (CAS 64742-95-6)	Listed.
Solvent naptha (petroleum), light aliphatic (CAS 64742-89-8)	Listed.
Titanium oxide (CAS 13463-67-7)	Listed.

US - New Jersey RTK - Substances: Listed substance

2-Pentanone, 4-hydroxy-4-methyl- (CAS 123-42-2)
Acetone (CAS 67-64-1)
Carbon black (CAS 1333-86-4)
Hydrous magnesium silicate (CAS 14807-96-6)
Limestone (CAS 1317-65-3)
Propane (CAS 74-98-6)
Solvent naphtha (petroleum), light aromatic (CAS 64742-95-6)
Solvent naptha (petroleum), light aliphatic (CAS 64742-89-8)
Titanium oxide (CAS 13463-67-7)

US - Texas Effects Screening Levels Hazard Data: Simple asphyxiant

Propane (CAS 74-98-6)

US - Texas Effects Screening Levels: Listed substance

2-Pentanone, 4-hydroxy-4-methyl- (CAS 123-42-2)	Listed.
2-Propanol, 1-methoxy-, acetate (CAS 108-65-6)	Listed.
Acetone (CAS 67-64-1)	Listed.
Carbon black (CAS 1333-86-4)	Listed.

Hydrous magnesium silicate (CAS 14807-96-6)	Listed.
Limestone (CAS 1317-65-3)	Listed.
Propane (CAS 74-98-6)	Listed.
Quaternary ammonium compounds, bis(hydrogenated tallow alkyl) dimethyl, salts with bentonite (CAS 68953-58-2)	Listed.
Solvent naphtha (petroleum), light aromatic (CAS 64742-95-6)	Listed.
Solvent naptha (petroleum), light aliphatic (CAS 64742-89-8)	Listed.
Titanium oxide (CAS 13463-67-7)	Listed.

US. Massachusetts RTK - Substance List

2-Pentanone, 4-hydroxy-4-methyl- (CAS 123-42-2)
Acetone (CAS 67-64-1)
Carbon black (CAS 1333-86-4)
Hydrous magnesium silicate (CAS 14807-96-6)
Limestone (CAS 1317-65-3)
Propane (CAS 74-98-6)
Solvent naphtha (petroleum), light aromatic (CAS 64742-95-6)
Solvent naptha (petroleum), light aliphatic (CAS 64742-89-8)
Titanium oxide (CAS 13463-67-7)

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

Propane (CAS 74-98-6)

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

2-Pentanone, 4-hydroxy-4-methyl- (CAS 123-42-2)
Acetone (CAS 67-64-1)
Carbon black (CAS 1333-86-4)
Hydrous magnesium silicate (CAS 14807-96-6)
Limestone (CAS 1317-65-3)
Propane (CAS 74-98-6)
Solvent naphtha (petroleum), light aromatic (CAS 64742-95-6)
Solvent naptha (petroleum), light aliphatic (CAS 64742-89-8)
Titanium oxide (CAS 13463-67-7)

US. Rhode Island RTK

2-Pentanone, 4-hydroxy-4-methyl- (CAS 123-42-2)
Acetone (CAS 67-64-1)
Carbon black (CAS 1333-86-4)
Hydrous magnesium silicate (CAS 14807-96-6)
Limestone (CAS 1317-65-3)
Propane (CAS 74-98-6)
Solvent naphtha (petroleum), light aromatic (CAS 64742-95-6)
Solvent naptha (petroleum), light aliphatic (CAS 64742-89-8)
Titanium oxide (CAS 13463-67-7)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

Inventory status

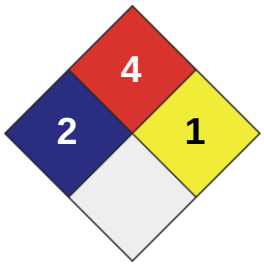
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

HEALTH	/ 2
FLAMMABILITY	4
PHYSICAL HAZARD	1
PERSONAL PROTECTION	X



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Prepared by	Dell Tech Laboratories Ltd. Phone: (519) 858-5021
Other information	For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.