GUIDE #7 GUIDE COAT AEROSOL

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

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SECTION 1: Identification

1.1. Product identifier

Product form : Mixture

Trade name : GUIDE #7 GUIDE COAT AEROSOL

Product code : GUIDE/AL

UP Number UP0873

Product group : Aerosol

1.2. Recommended use and restrictions on use

Recommended use : Coating

1.3. Supplier

U-POL CANADA LIMITED
P.O. Box P.O. BOX 48600
BC V7X 1T2 VANCOUVER - CANADA
T 1-800-424-9300
technicalsupport@u-pol.com - www.u-pol.com

1.4. Emergency telephone number

Emergency number : 1-800-424-9300 (CHEMTREC)

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS CA)

Flammable aerosol Category 1	H222
Gases under pressure Liquefied gas	H280
Serious eye damage/eye irritation Category 2	H319
Carcinogenicity Category 2	H351
Specific target organ toxicity (single exposure) Category 3	H336

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS CA labeling

Hazard pictograms (GHS CA) :

Signal word (GHS CA) : Danger

Hazard statements (GHS CA) : H222 - Extremely flammable aerosol
H280 - Contains gas under pressure; may explode if heated
H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness
H351 - Suspected of causing cancer

Precautionary statements (GHS CA) : P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 - Do not spray on an open flame or other ignition source.
P251 - Do not pierce or burn, even after use.
P261 - Avoid breathing fume, spray, vapors.
P264 - Wash hands thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear eye protection, protective clothing, protective gloves.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 - IF exposed or concerned: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P405 - Store locked up.
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS CA)

2.15% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Vapors))

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
acetone	2-propanon / 2-propanone / acetone / acetone NF / acetone oil / AI3-01238 / Caswell No.004 / chevron acetone / dimethyl formaldehyde / dimethyl ketone / dimethylketal / Dimethylketon / DMK (=dimethyl ketone) / FEMA No 3326 / ketone propane / KTI acetone / methyl acetyl / pyroacetic acid / pyroacetic ether / pyroacetic spirit / STEC 4908105	(CAS-No.) 67-64-1	60 - 65	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
carbon black	10 B / 200303 / 3500 B / 40 B / acetylen black / acetylene black / acticarbon AC 35 / AD 200 / AD 200(carbon) / AM black / amorphous carbon / aquafine AF black E 2B / aquafine black E ZB / aro / aroflow / arogen / aromex / arotone / arovel / arrow / asahi 35 / asahi 60 / asahi 70 / asahi 80 / asahithermal / ASM(carbon) / ATG 60 / ATG 70 / atlantic / ATR 077 / austin black / austin black 325 / AX 3023 / BK 6 / BK 6(carbon black) / black FW / black pearls / black pearls 1000 / black pearls 1000A80 / black pearls 1100 / black pearls 1300 / black pearls 2000 / black pearls 700 / black pearls 800 / black pearls 880 / black pearls 900 / black pearls l / C.I. 77266 / C.I. pigment black 6 / C.I. pigment black 7 / cabot 330 / cabot 607 / calblack N 220 / cancarb / carbalac 2 / carbodis / carbodis 100 / carbodis 80 / carbolac / carbolac 1 / carbomet / CARBON BLACK / carbon black BV and V / carbon black corax N330 / carbon black EB501 / carbon black monarch 81 / carbon black pearls / carbon black pigment / carbon black, acetylene / carbon black, channel / carbon black, furnace / carbon black, lamp / carbon black, thermal / carbon, amorphous / CC 40-220 / CD-7037 / channel black / charcoal black / chesacarb / chesacarb E / chesacarb EC / chesacarb K 2 / chezasorb / CK3 / CK4 / CK4(carbon black) / clagon RBDA / collocarb / colour black FW 1 / columbia carbon / CONDUCTEX / CONDUCTEX 40-220 / CONDUCTEX 7055 / CONDUCTEX 900 / CONDUCTEX 950 / CONDUCTEX 975 / CONDUCTEX CC 40-220 / CONDUCTEX N 472 / CONDUCTEX SC / continental(=carbon black) / continex / CONTINEX N 330 / CONTINEX N 356 / corac P / corax / corax 234 / corax 3HS CSX 147 / corax A / corax L / corax L 29 / corax L 6 / corax N220 / corax N539 / corax N650 / corax N683 / corax N765 / corax P / croflex / crolac / CSX 150A / CSX 150A2 / CSX 174 / CSX 200A / CSX 99 / CSX191 / CSX230 / CSX242 / DEGUSSA black FW / DEGUSSA(=carbon black) / dermmapol black G / DG 100 / diablack 2350 / diablack 3500B / diablack 52 / diablack A / diablack E / diablack G / diablack H / diablack MA 100 / diablack MA 8 / diablack MA 8B / diablack SH / disperse black SD 9020 / dixie(=carbon black) / dixiecell / dixiedensed / dixitherm / DMG 105a durex O / durex O beads / durex(carbon black) / E carbon black / eagle germantown / EDO / EDO(carbon black) / eldic EC 8013 / ELF / ELF 78 / elfex 475 / ELF-O / elftex / elftex 115 / elftex 12 / elftex 120 / elftex 125 / elftex 150 / elftex 160 / elftex 180 / elftex 280 / elftex 285 / elftex 415 / elftex 430 / elftex 435 / elftex 460 / elftex 465 / elftex 470 / elftex 475 / elftex 480 / elftex 485 / elftex 490 / elftex 495 / elftex 5 / elftex 570 / elftex 670 / elftex 675 / elftex 8 / elftex TP / elftex-E280 / emacol NS black 4901 / EPC / EPC(carbon black) / essex / excelsior / EXP / EXP 1 / EXP 2 / EXP(carbon black) / explosion / explosion acetylene black / explosion black / F 122 / farbruss / farbruss FW 1 / farbruss S 160 / fecto / flame black / flamruss / furnace black / furnal / furnal 500 / furnex / furnex N 765 / FW 200 / FW 200(carbon) / G 2 / G2(carbon black) / gas black / gas-furnace black / gastex /	(CAS-No.) 1333-86-4	1.5 - 3	Carc. 2, H351

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
ethyl methyl ketone	ethyl methyl ketone 2-butanone / 2-oxobutane / 3-butanone / acetone, methyl- / AI3-07540 / butan-2-one / butanone / Caswell NO 569 / ethyl methyl ketone / EXXON methylethyl ketone / FEMA N°. 2170 / ketone, ethyl methyl- / meetco / MEK (= methyl ethyl ketone) / methyl 2-propanone / methyl acetone	(CAS-No.) 78-93-3	1.5 - 3	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
4-methylpentan-2-one, isobutyl methyl ketone	4-methylpentan-2-one, isobutyl methyl ketone 2-methyl-4-pentanone / 2-methylpropyl methyl ketone / 2-pentanone, 4-methyl- / 4-methyl-2-oxopentane / 4-methyl-2-pentanone / 4-methylpentan-2-one / AI3-01229 / Caswell No. 574AA / FEMA No 2731 / hexanon / hexanone (=methyl isobutyl keton) / hexone / iso-butyl ketone / isobutyl methyl keton / isopropylacetone (=4-methyl-2-pentanone) / ketone, isobutyl methyl / MIBK (=methyl isobutyl ketone) / MIK / SHELL MIBK	(CAS-No.) 108-10-1	0.5 - 1	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:vapour), H332 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H335

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : 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.

First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

First-aid measures general : IF exposed or concerned: Get medical advice/attention.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects : May cause drowsiness or dizziness.

Symptoms/effects after eye contact : Eye irritation.

4.3. Immediate medical attention and special treatment, if necessary

Other medical advice or treatment : Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Unsuitable extinguishing media

No additional information available

5.3. Specific hazards arising from the hazardous product

Fire hazard : Extremely flammable aerosol.

Explosion hazard : Pressurized container: may burst if heated.

5.4. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No additional information available

6.2. Methods and materials for containment and cleaning up

For containment : Contain released product, pump into suitable containers. Collect spillage.

Methods for cleaning up : Notify authorities if product enters sewers or public waters. Mechanically recover the product.

Other information : Dispose of materials or solid residues at an authorized site.

6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. 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. Pressurized container: Do not pierce or burn, even after use. Avoid contact with skin and eyes. Use only outdoors or in a well-ventilated area. Avoid breathing vapors, spray, fume.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

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

Storage temperature : < 25 °C

Special rules on packaging : Keep only in original container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

acetone (67-64-1)		
Alberta	OEL STEL (ppm)	500 ppm
Alberta	OEL TWA (ppm)	250 ppm
Alberta	Notations and remarks	eye irr; CNS impair; BEI
British Columbia	OEL STEL (ppm)	500 ppm
British Columbia	OEL TWA (ppm)	250 ppm
British Columbia	Notations and remarks	eye irr; CNS impair; BEI
Manitoba	OEL STEL (ppm)	500 ppm
Manitoba	OEL TWA (ppm)	250 ppm
Manitoba	Notations and remarks	eye irr; CNS impair; BEI
New Brunswick	OEL STEL (ppm)	500 ppm
New Brunswick	OEL TWA (ppm)	250 ppm
New Brunswick	Notations and remarks	eye irr; CNS impair; BEI
Newfoundland & Labrador	OEL STEL (ppm)	500 ppm
Newfoundland & Labrador	OEL TWA (ppm)	250 ppm
Newfoundland & Labrador	Notations and remarks	eye irr; CNS impair; BEI
Nova Scotia	OEL STEL (ppm)	500 ppm
Nova Scotia	OEL TWA (ppm)	250 ppm
Nova Scotia	Notations and remarks	eye irr; CNS impair; BEI
Nunavut	OEL STEL (ppm)	500 ppm
Nunavut	OEL TWA (ppm)	250 ppm
Nunavut	Notations and remarks	eye irr; CNS impair; BEI
Northwest Territories	OEL STEL (ppm)	500 ppm
Northwest Territories	OEL TWA (ppm)	250 ppm
Northwest Territories	Notations and remarks	eye irr; CNS impair; BEI
Ontario	OEL STEL (ppm)	750 ppm
Ontario	OEL TWA (ppm)	500 ppm
Ontario	Regulatory reference	Ontario Occuational Exposure Limits under Regulation 833
Prince Edward Island	OEL STEL (ppm)	500 ppm
Prince Edward Island	OEL TWA (ppm)	250 ppm
Prince Edward Island	Notations and remarks	eye irr; CNS impair; BEI
Saskatchewan	OEL STEL (ppm)	750 ppm
Saskatchewan	OEL TWA (ppm)	500 ppm

carbon black (1333-86-4)		
Alberta	OEL TWA (mg/m³)	3 mg/m³
Alberta	Notations and remarks	Bronchitis
British Columbia	OEL TWA (mg/m³)	3 mg/m³
British Columbia	Notations and remarks	Bronchitis
Manitoba	OEL TWA (mg/m³)	3 mg/m³
Manitoba	Notations and remarks	Bronchitis
New Brunswick	OEL TWA (mg/m³)	3 mg/m³
New Brunswick	Notations and remarks	Bronchitis
Newfoundland & Labrador	OEL TWA (mg/m³)	3 mg/m³
Newfoundland & Labrador	Notations and remarks	Bronchitis
Nova Scotia	OEL TWA (mg/m³)	3 mg/m³
Nova Scotia	Notations and remarks	Bronchitis
Nunavut	OEL TWA (mg/m³)	3 mg/m³
Nunavut	Notations and remarks	Bronchitis
Northwest Territories	OEL TWA (mg/m³)	3 mg/m³
Northwest Territories	Notations and remarks	Bronchitis
Ontario	OEL TWA (mg/m³)	3 mg/m³
Ontario	Notations and remarks	(I)
Ontario	Regulatory reference	Ontario Occuational Exposure Limits under Regulation 833
Prince Edward Island	OEL TWA (mg/m³)	3 mg/m³
Prince Edward Island	Notations and remarks	Bronchitis
Saskatchewan	OEL STEL (mg/m³)	7 mg/m³
Saskatchewan	OEL TWA (mg/m³)	3.5 mg/m³

ethyl methyl ketone (78-93-3)		
Alberta	OEL STEL (ppm)	300 ppm
Alberta	OEL TWA (ppm)	200 ppm
Alberta	Notations and remarks	URT irr; CNS & PNS impair
British Columbia	OEL STEL (ppm)	300 ppm
British Columbia	OEL TWA (ppm)	200 ppm
British Columbia	Notations and remarks	URT irr; CNS & PNS impair
Manitoba	OEL STEL (ppm)	300 ppm
Manitoba	OEL TWA (ppm)	200 ppm
Manitoba	Notations and remarks	URT irr; CNS & PNS impair
New Brunswick	OEL STEL (ppm)	300 ppm
New Brunswick	OEL TWA (ppm)	200 ppm
New Brunswick	Notations and remarks	URT irr; CNS & PNS impair
Newfoundland & Labrador	OEL STEL (ppm)	300 ppm
Newfoundland & Labrador	OEL TWA (ppm)	200 ppm
Newfoundland & Labrador	Notations and remarks	URT irr; CNS & PNS impair
Nova Scotia	OEL STEL (ppm)	300 ppm
Nova Scotia	OEL TWA (ppm)	200 ppm
Nova Scotia	Notations and remarks	URT irr; CNS & PNS impair
Nunavut	OEL STEL (ppm)	300 ppm
Nunavut	OEL TWA (ppm)	200 ppm
Nunavut	Notations and remarks	URT irr; CNS & PNS impair
Northwest Territories	OEL STEL (ppm)	300 ppm
Northwest Territories	OEL TWA (ppm)	200 ppm
Northwest Territories	Notations and remarks	URT irr; CNS & PNS impair

ethyl methyl ketone (78-93-3)		
Ontario	OEL STEL (ppm)	300 ppm
Ontario	OEL TWA (ppm)	200 ppm
Ontario	Regulatory reference	Ontario Occuational Exposure Limits under Regulation 833
Prince Edward Island	OEL STEL (ppm)	300 ppm
Prince Edward Island	OEL TWA (ppm)	200 ppm
Prince Edward Island	Notations and remarks	URT irr; CNS & PNS impair
Saskatchewan	OEL STEL (ppm)	300 ppm
Saskatchewan	OEL TWA (ppm)	200 ppm

4-methylpentan-2-one, isobutyl methyl ketone (108-10-1)		
Ontario	OEL STEL (ppm)	75 ppm
Ontario	OEL TWA (ppm)	20 ppm
Ontario	Regulatory reference	Ontario Occuational Exposure Limits under Regulation 833
Saskatchewan	OEL STEL (ppm)	75 ppm
Saskatchewan	OEL TWA (ppm)	50 ppm

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Gloves. Protective clothing. Safety glasses.

Materials for protective clothing:

Impermeable clothing

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Aerosol.

Color : Black

Odor : There may be no odour warning properties, odour is subjective and inadequate to warn of overexposure.
Mixture contains one or more component(s) which have the following odour:
Aromatic odour Sweet odour Fruity odour Odourless Commercial/unpurified substance: unpleasant odour Petroleum-like odour Pleasant odour Almost odourless Mild odour Acetone odour Camphor odour

Odor threshold : No data available

pH : No data available

Relative evaporation rate (butyl acetate=1)	:	No data available
Relative evaporation rate (ether=1)	:	No data available
Melting point	:	Not applicable
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	Extremely flammable aerosol
Vapor pressure	:	No data available
Vapor pressure at 50 °C	:	No data available
Relative density	:	No data available
Specific gravity / density	:	0.705 g/cm³
Solubility	:	No data available
Log Pow	:	No data available
Viscosity, dynamic	:	≈
Explosive properties	:	Pressurized container: may burst if heated.
Explosion limits	:	No data available

9.2. Other information

As Packaged Regulatory VOC	:	630 g/l (5.3 lbs/gal)
As Packaged Actual VOC	:	461 g/l (3.8 lbs/gal)
As Applied Regulatory VOC	:	630 g/l (5.3 lbs/gal)
As Applied Actual VOC	:	461 g/l (3.8 lbs/gal)
Water Content		0 wt%
Volatiles	:	95.4 wt%
% HAPS	:	2.9 wt%
Percent Solids	:	4.57 wt%
Percent Solids	:	2.72 vol %
MIR	:	0.53

EPA Coating Category: PCP 1.2

CARB Aerosol Rule Coating Category: PCP 0.7

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	:	Extremely flammable aerosol. Pressurized container: may burst if heated.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No dangerous reactions known under normal conditions of use.
Conditions to avoid	:	Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	:	Not classified
Acute toxicity (dermal)	:	Not classified
Acute toxicity (inhalation)	:	Not classified

Unknown acute toxicity (GHS CA)	2.15% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Vapors))

acetone (67-64-1)	
LD50 oral rat	5800 mg/kg (Equivalent or similar to OECD 401, Rat, Female, Experimental value, Oral)
LD50 dermal rabbit	20000 mg/kg (Equivalent or similar to OECD 402, Rabbit, Male, Experimental value, Dermal)
LC50 inhalation rat (mg/l)	76 mg/l (Other, 4 h, Rat, Female, Experimental value, Inhalation (vapours))
ATE CA (oral)	5800 mg/kg body weight
ATE CA (Dermal)	20000 mg/kg body weight
ATE CA (vapors)	76 mg/l/4h
ATE CA (dust,mist)	76 mg/l/4h

carbon black (1333-86-4)	
LD50 oral rat	> 8000 mg/kg (Equivalent or similar to OECD 401, Rat, Male/female, Experimental value, Oral)
LD50 dermal rabbit	> 3000 mg/kg (Rabbit, Literature study, Dermal)
LC50 inhalation rat (mg/l)	> 4.6 mg/l air (4 h, Rat, Experimental value, Inhalation)

ethyl methyl ketone (78-93-3)	
LD50 oral rat	2193 mg/kg body weight (Equivalent or similar to OECD 423, Rat, Male/female, Read-across, Oral)
LD50 dermal rabbit	> 10 ml/kg (Equivalent or similar to OECD 402, 24 h, Rabbit, Male, Experimental value, Dermal)
ATE CA (oral)	2193 mg/kg body weight

4-methylpentan-2-one, isobutyl methyl ketone (108-10-1)	
LD50 oral rat	2080 mg/kg (Equivalent or similar to OECD 401, Rat, Experimental value, Oral)
LD50 dermal rat	>= 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male/female, Experimental value, Dermal)
LC50 inhalation rat (mg/l)	8.2 - 16.4 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Experimental value, Inhalation (vapours))
ATE CA (oral)	2080 mg/kg body weight
ATE CA (Gases)	4500 ppmV/4h
ATE CA (vapors)	8.2 mg/l/4h
ATE CA (dust,mist)	1.5 mg/l/4h

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Suspected of causing cancer.

Reproductive toxicity : Not classified

STOT-single exposure : May cause drowsiness or dizziness.

acetone (67-64-1)	
STOT-single exposure	May cause drowsiness or dizziness.

ethyl methyl ketone (78-93-3)	
STOT-single exposure	May cause drowsiness or dizziness.

4-methylpentan-2-one, isobutyl methyl ketone (108-10-1)	
STOT-single exposure	May cause respiratory irritation.

: Not classified

STOT-repeated exposure

Aspiration hazard : Not classified

GUIDE #7 GUIDE COAT AEROSOL	
Vaporizer	Aerosol

Symptoms/effects : May cause drowsiness or dizziness.

Symptoms/effects after eye contact : Eye irritation.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

Aquatic acute : Not classified

Aquatic chronic : Not classified

acetone (67-64-1)	
LC50 fish 1	5540 mg/l (EU Method C.1, 96 h, Salmo gairdneri, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 96h algae (1)	> 7000 mg/l (Selenastrum capricornutum, Static system, Fresh water, Experimental value, Nominal concentration)
BCF fish 1	0.69 (Pisces)

acetone (67-64-1)	
BCF other aquatic organisms 1	3 (BCFWIN, Calculated value)
Log Pow	-0.24 (Test data)

carbon black (1333-86-4)	
LC50 fish 1	> 1000 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Brachydanio rerio, Literature study)
EC50 Daphnia 1	> 5600 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 24 h, Daphnia magna, Static system, Fresh water, Experimental value)
EC50 72h algae [mg/l] 1	> 10000 mg/l (OECD 201: Alga, Growth Inhibition Test, Scenedesmus subspicatus, Static system, Fresh water, Experimental value)

ethyl methyl ketone (78-93-3)	
LC50 fish 1	2993 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Pimephales promelas, Static system, Fresh water, Experimental value, GLP)
EC50 Daphnia 1	308 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
ErC50 (algae)	1972 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)
Log Pow	0.3 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 40 °C)
Log Koc	1.53 (log Koc, Calculated value)

4-methylpentan-2-one, isobutyl methyl ketone (108-10-1)	
LC50 fish 1	600 mg/l (96 h, Salmo gairdneri, Fresh water, Literature study)
LC50 fish 2	> 179 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Static system, Fresh water, Experimental value, GLP)
EC50 Daphnia 1	> 200 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
EC50 96h algae (1)	400 mg/l (Selenastrum capricornutum, Literature study, Growth rate)
BCF fish 1	2 - 5 (Pisces, Estimated value)
Log Pow	1.9 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method)
Log Koc	2.008 (log Koc, Weight of evidence, Calculated value)

12.2. Persistence and degradability

acetone (67-64-1)	
Persistence and degradability	Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Readily biodegradable in water.
Biochemical oxygen demand (BOD)	1.43 g O_2/g substance
Chemical oxygen demand (COD)	1.92 g O_2/g substance
ThOD	2.2 g O_2/g substance
BOD (% of ThOD)	0.872 (20 day(s), Literature study)

carbon black (1333-86-4)	
Persistence and degradability	Biodegradability in soil: not applicable. Biodegradability: not applicable.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

ethyl methyl ketone (78-93-3)	
Persistence and degradability	Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Readily biodegradable in water.
Biochemical oxygen demand (BOD)	2.03 g O_2/g substance
Chemical oxygen demand (COD)	2.31 g O_2/g substance
ThOD	2.44 g O_2/g substance

4-methylpentan-2-one, isobutyl methyl ketone (108-10-1)	
Persistence and degradability	Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Readily biodegradable in water.
Biochemical oxygen demand (BOD)	2.06 g O_2/g substance
Chemical oxygen demand (COD)	2.16 g O_2/g substance
ThOD	2.72 g O_2/g substance

4-methylpentan-2-one, isobutyl methyl ketone (108-10-1)	
BOD (% of ThOD)	0.76

12.3. Bioaccumulative potential

acetone (67-64-1)	
Bioaccumulative potential	Not bioaccumulative.
BCF fish 1	0.69 (Pisces)
BCF other aquatic organisms 1	3 (BCFWIN, Calculated value)
Log Pow	-0.24 (Test data)

carbon black (1333-86-4)	
Bioaccumulative potential	Not bioaccumulative.

ethyl methyl ketone (78-93-3)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
Log Pow	0.3 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 40 °C)
Log Koc	1.53 (log Koc, Calculated value)

4-methylpentan-2-one, isobutyl methyl ketone (108-10-1)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
BCF fish 1	2 - 5 (Pisces, Estimated value)
Log Pow	1.9 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method)
Log Koc	2.008 (log Koc, Weight of evidence, Calculated value)

12.4. Mobility in soil

acetone (67-64-1)	
Surface tension	0.0237 N/m
Ecology - soil	No (test)data on mobility of the substance available.
Log Pow	-0.24 (Test data)

carbon black (1333-86-4)	
Ecology - soil	Adsorbs into the soil. Not toxic to plants. Not toxic to animals.

ethyl methyl ketone (78-93-3)	
Surface tension	0.024 N/m (20 °C)
Ecology - soil	Highly mobile in soil. Slightly harmful to plants.
Log Koc	1.53 (log Koc, Calculated value)
Log Pow	0.3 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 40 °C)

4-methylpentan-2-one, isobutyl methyl ketone (108-10-1)	
Surface tension	0.024 N/m (20 °C)
Ecology - soil	Low potential for adsorption in soil.
Log Koc	2.008 (log Koc, Weight of evidence, Calculated value)
Log Pow	1.9 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method)

12.5. Other adverse effects

Ozone : Not classified

SECTION 13: Disposal considerations

13.1. Disposal methods

Regional legislation (waste) : Disposal must be done according to official regulations.

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

14.1. Basic shipping description

In accordance with TDG

Transportation of Dangerous Goods

UN-No. (TDG) : UN1950

TDG Primary Hazard Classes : 2.1 - Class 2.1 - Flammable Gas.

Transport document description : UN1950 AEROSOLS (flammable), 2.1

Proper Shipping Name (Transportation of Dangerous Goods) : AEROSOLS
flammable

Hazard labels (TDG)	:	2.1 - Flammable gases

TDG Special Provisions	:	80 - Despite section 1.17 of Part 1, Coming into Force, Repeal, Interpretation, General Provisions and Special Cases, a person must not offer for transport or transport these dangerous goods unless they are in a means of containment that is in compliance with section 5.11 of Part 5, Means of Containment, except that the requirement for aerosol containers to be tightly packed in a wood, fibreboard or plastic box does not apply to a user or purchaser who transports no more than six aerosol containers. For a similar rule respecting aerosol containers, see subparagraph 1.15(1)(a)(i) of Part 1, Coming into Force, Repeal, Interpretation, General Provisions and Special Cases. SOR/2012-245 107 - (1)These Regulations, except for Part 1 (Coming into Force, Repeal, Interpretation, General Provisions and Special Cases) and Part 2, (Classification), do not apply to the handling, offering for transport or transporting of UN1950, AEROSOLS, and UN2037, GAS CARTRIDGES, that contain dangerous goods included in Class 2.1 or Class 2.2 and that are transported on a road vehicle, a railway vehicle or a ship on a domestic voyage, if the aerosols or gas cartridges have a capacity less than or equal to 50 mL. (2)Subsection (1) does not apply to self-defence spray. SOR/2014-306
Explosive Limit and Limited Quantity Index	:	1 L
Excepted quantities (TDG)	:	E0
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	:	75 L

14.2. Transport information/DOT

Department of Transport

DOT NA No	:	UN1950
UN-No.(DOT)	:	1950
Transport document description	:	UN1950 Aerosols (flammable, (each not exceeding 1 L capacity)), 2.1
Proper Shipping Name (DOT)	:	Aerosols flammable, (each not exceeding 1 L capacity)
Contains Statement Field Selection (DOT)	:	
Class (DOT)	:	2.1 - Class 2.1 - Flammable gas 49 CFR 173.115
Division (DOT)	:	2.1
Hazard labels (DOT)	:	2.1 - Flammable gas

Dangerous for the environment	:	No
DOT Special Provisions (49 CFR 172.102)	:	N82 - See 173.306 of this subchapter for classification criteria for flammable aerosols.
DOT Packaging Exceptions (49 CFR 173.xxx)	:	306
DOT Packaging Non Bulk (49 CFR 173.xxx)	:	None
DOT Packaging Bulk (49 CFR 173.xxx)	:	None
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	:	75 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	:	150 kg
DOT Vessel Stowage Location	:	A - The material may be stowed ‘‘on deck’’ or ‘‘under deck’’ on a cargo vessel and on a passenger vessel.
DOT Vessel Stowage Other	:	25 - Protected from sources of heat,87 - Stow ‘‘separated from’’ Class 1 (explosives) except Division 14,126 - Segregation same as for Class 9, miscellaneous hazardous materials
Other information	:	No supplementary information available.

14.3. Air and sea transport

IMDG

UN-No. (IMDG)	:	1950
Proper Shipping Name (IMDG)	:	AEROSOLS
Transport document description (IMDG)	:	UN 1950 AEROSOLS, 2.1

Class (IMDG) : 2 - Gases

IATA

UN-No. (IATA) : 1950
Proper Shipping Name (IATA) : Aerosols, flammable
Transport document description (IATA) : UN 1950 Aerosols, flammable, 2.1
Class (IATA) : 2

SECTION 15: Regulatory information

15.1. National regulations

acetone (67-64-1)
Listed on the Canadian DSL (Domestic Substances List)

carbon black (1333-86-4)
Listed on the Canadian DSL (Domestic Substances List)

ethyl methyl ketone (78-93-3)
Listed on the Canadian DSL (Domestic Substances List)

4-methylpentan-2-one, isobutyl methyl ketone (108-10-1)
Listed on the Canadian DSL (Domestic Substances List)

15.2. International regulations

acetone (67-64-1)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

carbon black (1333-86-4)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

ethyl methyl ketone (78-93-3)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

4-methylpentan-2-one, isobutyl methyl ketone (108-10-1)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

SECTION 16: Other information

SDS Major/Minor : None
Date of issue : 04-17-2018
Revision date : 08-29-2019
Supersedes : 08-13-2019

Indication of changes:

Section	Changed item	Change	Comments
	Supersedes	Added	
	Revision date	Added	

Full text of H-phrases:

H222	Extremely flammable aerosol
H225	Highly flammable liquid and vapor
H280	Contains gas under pressure; may explode if heated
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H351	Suspected of causing cancer

SDS Canada U-POL

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.