



PRO FINISH SILICONE STOPPERS

Safety Data Sheet

According to the Hazardous Products Regulations (HPR) WHMIS 2022
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SECTION 1 Identification

1.1. GHS Product identifier

Product form : Mixture
Product name : PRO FINISH SILICONE STOPPERS
Product code : PPD560, 561, 562
Vaporizer : Aerosol

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Recommended uses and restrictions : Silicone levelers

1.4. Supplier's details

Supplier

Dover Finishing Products, Inc.
3553 rue Ashby
St-Laurent QC H4R 2K3
Canada
T 514-420-6030
dfpservice@dfp.ca

1.5. Emergency phone number

Emergency number : 1-800-354-4445

SECTION 2 Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS CA)

Aerosol, Category 1	H222;H229	Extremely flammable aerosol. Pressurized container; may burst if heated.
Acute toxicity (oral), Category 4	H302	Harmful if swallowed.
Acute toxicity (inhalation:dust,mist), Category 4	H332	Harmful if inhaled.
Skin irritation, Category 2	H315	Causes skin irritation.
Serious eye damage, Category 1	H318	Causes serious eye damage.
Carcinogenicity, Category 2	H351	Suspected of causing cancer.
Reproductive toxicity, Category 1B	H360	May damage fertility or the unborn child.
Specific target organ toxicity, Single exposure, Category 2	H371	May cause damage to organs.
Specific target organ toxicity – Single exposure, Category 3, Narcosis	H336	May cause drowsiness or dizziness.
Specific target organ toxicity, Repeated exposure, Category 1	H372	Causes damage to organs (central nervous system, optic nerve) through prolonged or repeated exposure (oral).
Specific target organ toxicity, Repeated exposure, Category 2	H373	May cause damage to organs (hearing organs) through prolonged or repeated exposure.

PRO FINISH SILICONE STOPPERS

Safety Data Sheet

According to the Hazardous Products Regulations (HPR) WHMIS 2022

2.2. GHS label elements, including precautionary statements

GHS-CA labelling

Hazard pictograms (GHS-CA)



Signal word (GHS CA)

: Danger

Hazard statements (GHS-CA)

: H222 - Extremely flammable aerosol
H229 - Pressurized container; may burst if heated
H302+H332 - Harmful if swallowed or if inhaled
H315 - Causes skin irritation
H318 - Causes serious eye damage
H336 - May cause drowsiness or dizziness
H351 - Suspected of causing cancer.
H360 - May damage fertility or the unborn child
H371 - May cause damage to organs.
H372 - Causes damage to organs (central nervous system, optic nerve) through prolonged or repeated exposure (oral).
H373 - May cause damage to organs (hearing organs) through prolonged or repeated exposure.

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.
P260 - Do not breathe dust, fume, gas, spray, mist, vapours.
P264 - Wash hands, forearms and face thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear eye protection, face protection, protective clothing, protective gloves.
P308+P311 - IF EXPOSED OR CONCERNED: Call a POISON CENTER or a doctor.
P301+P312 - IF SWALLOWED: Call a POISON CENTER or a doctor if you feel unwell.
P330 - Rinse mouth.
P312 - Call a POISON CENTER or a doctor if you feel unwell.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P332+P313 - If skin irritation occurs: Get medical advice or attention.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTER or a doctor.
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 and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity

14% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)

9% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

PRO FINISH SILICONE STOPPERS

Safety Data Sheet

According to the Hazardous Products Regulations (HPR) WHMIS 2022

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	Conc. (% w/w)
Acetone	Dimethyl ketone / 2-Propanone / ACETONE / Propan-2-one / Propanone	CAS-No.: 67-64-1	30 – 60
2-Pentanone, 4-methyl-	Hexone / Isobutyl methyl ketone / Isopropylacetone / Methyl isobutyl ketone / 4-Methyl-2-pentanone / 2-Methyl-4-pentanone / 4-Methylpentan-2-one / MIBK / Pentan-2-one, 4-methyl-	CAS-No.: 108-10-1	15 - 40
Xylenes (o-, m-, p- isomers)	Benzene, dimethyl- / Dimethylbenzene (mixed isomers) / Xylene / Xylene (all isomers) / Xylene (mixed isomers) / Xylene (o-, m-, p- isomers) / Xylenes / Xylenes (mixed isomers) / Dimethylbenzene / Xylol / Benzene, dimethyl-, mixed isomers / XYLENE / Dimethylbenzenes / Xylene isomers mixture / Dimethylbenzene (2-, 3-, 4-isomers) / Dimethylbenzene (mixed 2-, 3-, 4-isomers) / C8 Disubstituted benzenes / Xylene, mixed isomers / Xylenes (meta-, ortho-, para-) / Xylene (mixture), including m-xylene, o-xylene, p-xylene / Xylene (o-,m-,p- isomer mixture)	CAS-No.: 1330-20-7	3 - 10
Isobutane	2-Methylpropane / Propane, 2-methyl- / ISOBUTANE / R600a / isobutane / R-600a	CAS-No.: 75-28-5	3 - 7
Toluene	toluene Benzene, methyl- / Methylbenzene / Phenylmethane / TOLUENE	CAS-No.: 108-88-3	1 - 5
Methanol	methanol METHYL ALCOHOL / Wood alcohol / Methyl hydroxide / Carbinol / Methyl alcohol	CAS-No.: 67-56-1	1 - 5
n-Butyl acetate	1-Butyl acetate / Butyl acetate, n- / Butyl acetate / BUTYL ACETATE / Acetic acid, n-butyl ester / Acetic acid, butyl ester / Butyl ethanoate / N-butyl acetate	CAS-No.: 123-86-4	1 - 5
Phosphoric acid, monobutyl ester	Butyl dihydrogen phosphate / Mono-n-butylphosphoric acid	CAS-No.: 1623-15-0	1- 5
Isobutyl alcohol	1-Propanol, 2-methyl- / 2-Methyl-1-propanol / 2-Methylpropan-1-ol / Isobutanol / Butanol, iso- / 2-Methylpropanol / 2-METHYLPROPANOL	CAS-No.: 78-83-1	1 - 5
Isopropyl alcohol	2-Hydroxypropane / 2-Propyl alcohol / 2-Propanol / Isopropanol / Propan-2-ol / ISOPROPYL ALCOHOL / Propanol, 2- / Isopropyl alcohol	CAS-No.: 67-63-0	1 - 5
2-butoxyethanol	2-Butoxy-1-ethanol / Butoxyethanol / Ethanol, 2-butoxy- / Ethylene glycol monobutyl ether / Ethylene glycol n-butyl ether / Hydroxyethyl butyl ether / Ethylene glycol butyl ether / 2-Butoxyethan-1-ol / Ethylene glycol mono-n-butyl ether / 2-n-Butoxyethanol / Butyl glycol / BUTOXYETHANOL / EGBE / EGMBE / Butoxyethanol, 2- / Butyl Cellosolve / Monobutyl ether of ethyleneglycol	CAS-No.: 111-76-2	0.1 - 1
Propylene glycol monomethyl ether	1-Methoxy-2-propanol / 1-Methoxypropanol-2 / METHOXYISOPROPANOL / Methoxyisopropanol / Propylene glycol methyl ether / Propylene glycol 1-methyl ether / Propan-2-ol, 1-methoxy- / 1-Methoxypropan-2-ol / 1-Methoxy-2-hydroxypropane / 2-Methoxy-1-methylethanol / Propylene glycol monomethyl ether / 2-Propylene glycol 1-monomethyl ether / Methyl proxitol / Monomethyl ether of propylene glycol / Propyleneglycol monomethyl ether / Propanol, methoxy-	CAS-No.: 107-98-2	0.1 - 1
Ethylbenzene	Benzene, ethyl- / Phenylethane / ETHYLBENZENE	CAS-No.: 100-41-4	0.1 - 1

PRO FINISH SILICONE STOPPERS

Safety Data Sheet

According to the Hazardous Products Regulations (HPR) WHMIS 2022

Name	Chemical name / Synonyms	Product identifier	Conc. (% w/w)
Dibutyl phosphate	Phosphoric acid, dibutyl ester / Dibutyl hydrogen phosphate / Di-n-butyl phosphate	CAS-No.: 107-66-4	0.1 - 1

Comments : *Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

SECTION 4 First-aid measures

4.1. Description of necessary first-aid measures

- First-aid measures after inhalation : If inhaled: Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, give oxygen. Call a POISON CENTER/doctor if you feel unwell.
- First-aid measures after skin contact : IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.
- First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
- First-aid measures after ingestion : IF SWALLOWED: Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting unless directed to do so by medical personnel. Call a POISON CENTER/doctor if you feel unwell.
- First-aid measures general : IF exposed or concerned: Call a POISON CENTER/doctor.

4.2. Most important symptoms/effects, acute and delayed

- Symptoms/effects after inhalation : Harmful if inhaled. May cause irritation to the respiratory tract. May cause drowsiness or dizziness.
- Symptoms/effects after skin contact : Causes skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.
- Symptoms/effects after eye contact : Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns.
- Symptoms/effects after ingestion : Harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
- Chronic symptoms : Suspected of causing cancer. May damage fertility or the unborn child. Causes damage to organs (central nervous system, optic nerve) through prolonged or repeated exposure (oral).

4.3. Indication of immediate medical attention and special treatment needed, if necessary

- Other medical advice or treatment : Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

SECTION 5 Fire-fighting measures

5.1. Suitable extinguishing media

- Suitable extinguishing media : Carbon dioxide (CO₂), dry chemical powder, foam.
- Unsuitable extinguishing media : Do not use water jet.

5.2. Specific hazards arising from the chemical

- Fire hazard : Extremely flammable aerosol. Products of combustion may include, and are not limited to: oxides of carbon. Irritating vapours. Vapours are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapours.
- Explosion hazard : Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Ruptured cylinders may rocket.

PRO FINISH SILICONE STOPPERS

Safety Data Sheet

According to the Hazardous Products Regulations (HPR) WHMIS 2022

5.3. Special protective actions for fire-fighters

- Firefighting instructions : In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. DO NOT fight fire when fire reaches explosives. Move containers away from the fire area if this can be done without risk. Cool closed containers exposed to fire with water spray.
- Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate every possible source of ignition. Use only non-sparking tools. Use special care to avoid static electric charges. Isolate from fire, if possible, without unnecessary risk.
- Environmental precautions : Prevent entry to sewers and public waters.

6.2. Methods and materials for containment and cleaning up

- For containment : Stop leak if safe to do so. Eliminate every possible source of ignition. Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Do not flush into surface water or sewer system. Wear recommended personal protective equipment.
- Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal. Provide ventilation.

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 : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not pierce or burn, even after use. Do not swallow. Do not breathe dust, fume, gas, mist, spray, vapours. Do not get in eyes, on skin, or on clothing. Handle and open container with care. When using do not eat, drink or smoke. 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. Use only outdoors or in a well-ventilated area.
- Hygiene measures : Wash contaminated clothing before reuse. Wash hands, forearms and face thoroughly after handling.
- Additional hazards when processed : Hazardous waste due to potential risk of explosion.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Proper grounding procedures to avoid static electricity should be followed.
- Storage conditions : Keep out of the reach of children. Keep container tightly closed. Store in a dry, cool and well-ventilated place. Do not expose to temperatures exceeding 50 °C/ 122 °F. Protect containers from physical damage. Store away from direct sunlight or other heat sources. Keep in fireproof place. Store locked up.
- Incompatible materials : Strong oxidizing agents.
- Specific end uses : Silicone levelers

PRO FINISH SILICONE STOPPERS

Safety Data Sheet

According to the Hazardous Products Regulations (HPR) WHMIS 2022

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

Acetone (67-64-1)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Acetone
ACGIH® TLV® TWA	594 mg/m ³
ACGIH® TLV® TWA	250 ppm
ACGIH® TLV® STEL	1187 mg/m ³
ACGIH® TLV® STEL	500 ppm
Remark (ACGIH®)	TLV® Basis: URT & eye irr; CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen); BEI
ACGIH® chemical category	Not Classifiable as a Human Carcinogen
Regulatory reference	ACGIH 2025
USA - ACGIH - Biological Exposure Indices	
Local name	Acetone
BEI	25 mg/l Parameter: Acetone - Medium: urine - Sampling time: end of shift (nonspecific)
Regulatory reference	ACGIH 2025
USA - OSHA - Occupational Exposure Limits	
Local name	Acetone
OSHA PEL TWA	2400 mg/m ³
OSHA PEL TWA	1000 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
Isobutane (75-28-5)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Isobutane
ACGIH® TLV® STEL	1000 ppm (EX - Explosion hazard)
Remark (ACGIH®)	TLV® Basis: CNS impair
Regulatory reference	ACGIH 2021
2-butoxyethanol (111-76-2)	
USA - ACGIH - Occupational Exposure Limits	
Local name	2-Butoxyethanol (EGBE)
ACGIH® TLV® TWA	20 ppm
Remark (ACGIH®)	TLV® Basis: Eye & URT irr. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI
ACGIH® chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
Regulatory reference	ACGIH 2020

PRO FINISH SILICONE STOPPERS

Safety Data Sheet

According to the Hazardous Products Regulations (HPR) WHMIS 2022

2-butoxyethanol (111-76-2)	
USA - ACGIH - Biological Exposure Indices	
BEI	200 mg/g creatinine Parameter: Butoxyacetic acid with hydrolysis - Medium: urine - Sampling time: end of shift
USA - OSHA - Occupational Exposure Limits	
Local name	2-Butoxyethanol
OSHA PEL TWA	240 mg/m ³
OSHA PEL TWA	50 ppm
Limit value category (OSHA)	prevent or reduce skin absorption
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
Propylene glycol monomethyl ether (107-98-2)	
USA - ACGIH - Occupational Exposure Limits	
Local name	1-Methoxy-2-propanol
ACGIH® TLV® TWA	50 ppm
ACGIH® TLV® STEL	100 ppm
Remark (ACGIH®)	TLV® Basis: Eye & URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
ACGIH® chemical category	Not Classifiable as a Human Carcinogen
Regulatory reference	ACGIH 2020
Toluene (108-88-3)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Toluene
ACGIH® TLV® TWA	20 ppm
Remark (ACGIH®)	TLV® Basis: CNS, visual & hearing impair; female repro system eff; pregnancy loss. Notations: OTO; A4 (Not classifiable as a Human Carcinogen); BEI
ACGIH® chemical category	Not Classifiable as a Human Carcinogen
Regulatory reference	ACGIH 2024
USA - ACGIH - Biological Exposure Indices	
Local name	Toluene
BEI	0.02 mg/l Parameter: Toluene - Medium: blood - Sampling time: prior to last shift of workweek 0.03 mg/l Parameter: Toluene - Medium: urine - Sampling time: end of shift 0.3 mg/g creatinine Parameter: o-Cresol with hydrolysis - Medium: urine - Sampling time: end of shift (background)
Regulatory reference	ACGIH 2024
USA - OSHA - Occupational Exposure Limits	
Local name	Toluene
OSHA PEL TWA	200 ppm
OSHA PEL C	300 ppm
Acceptable maximum peak above the acceptable ceiling concentration for an 8-hr shift	500 ppm Peak (10 minutes)
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-2

PRO FINISH SILICONE STOPPERS

Safety Data Sheet

According to the Hazardous Products Regulations (HPR) WHMIS 2022

Methanol (67-56-1)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH® TLV® TWA	200 ppm
ACGIH® TLV® STEL	250 ppm
ACGIH® chemical category	Skin - potential significant contribution to overall exposure by the cutaneous route
USA - ACGIH - Biological Exposure Indices	
BEI	15 mg/l Parameter: Methanol - Medium: urine - Sampling time: end of shift (background, nonspecific)
USA - OSHA - Occupational Exposure Limits	
OSHA PEL TWA	260 mg/m ³
OSHA PEL TWA	200 ppm
Xylenes (o-, m-, p- isomers) (1330-20-7)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH® chemical category	Not Classifiable as a Human Carcinogen
USA - ACGIH - Biological Exposure Indices	
BEI	1.5 g/g creatinine Parameter: Methylhippuric acids - Medium: urine - Sampling time: end of shift (technical or commercial grade)
USA - OSHA - Occupational Exposure Limits	
Local name	Xylenes (o-, m-, p-isomers)
OSHA PEL TWA	435 mg/m ³
OSHA PEL TWA	100 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
Isopropyl alcohol (67-63-0)	
USA - ACGIH - Occupational Exposure Limits	
Local name	2-Propanol
ACGIH® TLV® TWA	200 ppm
ACGIH® TLV® STEL	400 ppm
Remark (ACGIH®)	TLV® Basis: Eye & URT irr; CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen); BEI
ACGIH® chemical category	Not Classifiable as a Human Carcinogen
Regulatory reference	ACGIH 2023
USA - ACGIH - Biological Exposure Indices	
Local name	2-PROPANOL
BEI	40 mg/l Parameter: Acetone - Medium: urine - Sampling time: end of shift at end of workweek (background, nonspecific)
Regulatory reference	ACGIH 2023
USA - OSHA - Occupational Exposure Limits	
Local name	Isopropyl alcohol
OSHA PEL TWA	980 mg/m ³

PRO FINISH SILICONE STOPPERS

Safety Data Sheet

According to the Hazardous Products Regulations (HPR) WHMIS 2022

Isopropyl alcohol (67-63-0)	
OSHA PEL TWA	400 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
n-Butyl acetate (123-86-4)	
USA - ACGIH - Occupational Exposure Limits	
Local name	n-Butyl acetate
ACGIH® TLV® TWA	50 ppm (Butyl acetates, all isomers)
ACGIH® TLV® STEL	150 ppm (Butyl acetates, all isomers)
Remark (ACGIH®)	TLV® Basis: Eye & URT irr
Regulatory reference	ACGIH 2020
USA - OSHA - Occupational Exposure Limits	
Local name	n-Butyl-acetate
OSHA PEL TWA	710 mg/m ³
OSHA PEL TWA	150 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
Ethylbenzene (100-41-4)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Ethyl benzene
ACGIH® TLV® TWA	20 ppm
Remark (ACGIH®)	TLV® Basis: URT & Eye irr; Kidney eff; Ototoxicity; CNS impair. Notations: OTO (Ototoxicant); A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI
ACGIH® chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
Regulatory reference	ACGIH 2025
USA - ACGIH - Biological Exposure Indices	
Local name	Ethyl benzene
BEI	0.15 g/g creatinine Parameter: Sum of mandelic acid and phenylglyoxylic acid - Medium: urine - Sampling time: end of shift (nonspecific)
Regulatory reference	ACGIH 2025
USA - OSHA - Occupational Exposure Limits	
Local name	Ethyl benzene
OSHA PEL TWA	435 mg/m ³
OSHA PEL TWA	100 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
Dibutyl phosphate (107-66-4)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH® TLV® TWA	5 mg/m ³ (inhalable fraction and vapor)
ACGIH® chemical category	Skin - potential significant contribution to overall exposure by the cutaneous route

PRO FINISH SILICONE STOPPERS

Safety Data Sheet

According to the Hazardous Products Regulations (HPR) WHMIS 2022

Dibutyl phosphate (107-66-4)	
USA - OSHA - Occupational Exposure Limits	
OSHA PEL TWA	5 mg/m ³
OSHA PEL TWA	1 ppm
2-Pentanone, 4-methyl- (108-10-1)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Methyl isobutyl ketone
ACGIH® TLV® TWA	20 ppm
ACGIH® TLV® STEL	75 ppm
Remark (ACGIH®)	TLV® Basis: URT irr; dizziness; headache. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI
ACGIH® chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
Regulatory reference	ACGIH 2021
USA - ACGIH - Biological Exposure Indices	
Local name	METHYL ISOBUTYL KETONE
BEI	1 mg/l Parameter: MIBK - Medium: urine - Sampling time: end of shift
Regulatory reference	ACGIH 2021
USA - OSHA - Occupational Exposure Limits	
Local name	Hexone (Methyl isobutyl ketone)
OSHA PEL TWA	410 mg/m ³
OSHA PEL TWA	100 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1 OSHA Annotated Table Z-1
Isobutyl alcohol (78-83-1)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH® TLV® TWA	50 ppm
USA - OSHA - Occupational Exposure Limits	
OSHA PEL TWA	300 mg/m ³
OSHA PEL TWA	100 ppm

8.2. Appropriate engineering controls

Appropriate engineering controls	: Ensure good ventilation of the work station. Provide readily accessible eye wash stations and safety showers.
Environmental exposure controls	: Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment (PPE)

Hand protection:
Wear suitable gloves resistant to chemical penetration. Consult glove manufacturer's product information on material suitability and material thickness.
Eye protection:
Wear eye/face protection

PRO FINISH SILICONE STOPPERS

Safety Data Sheet

According to the Hazardous Products Regulations (HPR) WHMIS 2022

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. SDSs cannot provide detailed and complete respiratory protection guidelines. Selection of respiratory protection must be done by a qualified person who has assessed the work environment.

Other information:

Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	: Liquid
Appearance	: Aerosol. Viscous liquid.
Colour	: No data available
Odour	: Solvent
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: Slower than ether
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 56 – 171 °C / 132.8-339.8 °F
Flash point	: -104 °C / -155.2°F
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Extremely flammable aerosol.
Vapour pressure	: No data available
Relative vapour density at 20°C	: No data available
Relative density	: Heavier than air
Solubility	: No data available
Partition coefficient n-octanol/water	: No data available
Viscosity, kinematic	: No data available
Explosive limits	: Lower explosion limit: 1.8 vol % (Methanol) Upper explosion limit: 36.5 vol % (Methanol)
Particle characteristics	: No data available

Acetone (67-64-1)

Boiling point	56.05 °C (at 1013.25 hPa)
Flash point	-20 °C
Auto-ignition temperature	465 °C
Vapour pressure	233 hPa (at 20 °C)
Particle characteristics	No data available

Isobutane (75-28-5)

Boiling point	-161.48 °C (at 1013 hPa)
Flash point	-88.6 °C

PRO FINISH SILICONE STOPPERS

Safety Data Sheet

According to the Hazardous Products Regulations (HPR) WHMIS 2022

Isobutane (75-28-5)	
Auto-ignition temperature	460 °C
Vapour pressure	2100 hPa (at 20 °C)
Particle characteristics	No data available

2-butoxyethanol (111-76-2)	
Boiling point	(>171 - <171.5 °C - at 1 atm)
Flash point	67 °C (closed cup)
Auto-ignition temperature	230 °C
Vapour pressure	0.79 – 1.3 hPa (at 20 °C)
Particle characteristics	No data available

Propylene glycol monomethyl ether (107-98-2)	
Boiling point	120.17 °C Atm. press.: 101325 Pa Decomposition: 'no'
Flash point	31.1 °C Atm. press.: 101,3 hPa
Auto-ignition temperature	287 °C (at 1013 hPa)
Vapour pressure	11.5 hPa (at 20 °C)
Particle characteristics	No data available

Toluene (108-88-3)	
Boiling point	110.6 °C Atm. press.: 1013 hPa Decomposition: 'no'
Flash point	4.4 °C Atm. press.: 1013 hPa
Auto-ignition temperature	480 °C
Vapour pressure	29.3 hPa Temp.: 20 °C
Particle characteristics	No data available

Methanol (67-56-1)	
Boiling point	64.7 °C Atm. press.: 1013 hPa
Flash point	9.7 °C Atm. press.: 1013 hPa
Auto-ignition temperature	464 °C
Vapour pressure	169.27 hPa Temp.: 25 °C
Particle characteristics	No data available

Xylenes (o-, m-, p- isomers) (1330-20-7)	
Boiling point	138.3 – 141.4 °C
Auto-ignition temperature	465 – 525 °C
Vapour pressure	8.8 – 11.9 hPa (at 25 °C)
Particle characteristics	No data available

PRO FINISH SILICONE STOPPERS

Safety Data Sheet

According to the Hazardous Products Regulations (HPR) WHMIS 2022

Isopropyl alcohol (67-63-0)	
Boiling point	82.3 °C (at 1 atm)
Flash point	12 °C
Auto-ignition temperature	399 °C
Vapour pressure	42 hPa (at 20 °C)
Particle characteristics	No data available

n-Butyl acetate (123-86-4)	
Boiling point	125 – 126 °C (at 1 atm)
Flash point	22 °C
Auto-ignition temperature	425 °C
Vapour pressure	13 hPa (at 20 °C)
Particle characteristics	No data available

Ethylbenzene (100-41-4)	
Boiling point	136.1 °C (at 1013.3 hPa)
Flash point	12.8 °C (closed cup)
Auto-ignition temperature	432 °C (at 1013 hPa)
Vapour pressure	9.5 hPa (at 20 °C)
Particle characteristics	No data available

Dibutyl phosphate (107-66-4)	
Flash point	178 °C (closed cup)
Vapour pressure	< 1 mm Hg (at 20 °C)
Particle characteristics	No data available

2-Pentanone, 4-methyl- (108-10-1)	
Boiling point	114 – 117 °C
Flash point	18 °C
Auto-ignition temperature	448 °C
Vapour pressure	20 hPa (at 20 °C)
Particle characteristics	No data available

Isobutyl alcohol (78-83-1)	
Boiling point	108 °C (at 1013 hPa)
Flash point	27 °C (closed cup)
Auto-ignition temperature	415 °C
Vapour pressure	4 – 40 hPa (at 20 °C)

PRO FINISH SILICONE STOPPERS

Safety Data Sheet

According to the Hazardous Products Regulations (HPR) WHMIS 2022

Isobutyl alcohol (78-83-1)

Particle characteristics	No data available
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9.2. Data relevant with regard to physical hazard classes (supplemental)

Gas group : Press. Gas (Liq.)

SECTION 10 Stability and reactivity

Reactivity	: No dangerous reactions known under normal conditions of use.
Chemical stability	: Stable under normal conditions. Extremely flammable aerosol. Contents under pressure. Container may explode if heated. Do not puncture. Do not burn. Extreme risk of explosion by shock, friction, fire or other sources of ignition.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: Heat. Sparks. Open flame. Direct sunlight. Overheating. Incompatible materials.
Incompatible materials	: Strong oxidizers. Reducing agents. Strong acids.
Hazardous decomposition products	: May include, and are not limited to: oxides of carbon. Irritating vapours.
Hardening time:	: No additional information available

SECTION 11 Toxicological information

11.1. Likely routes of exposure

Acute toxicity (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified.
Acute toxicity (inhalation)	: Inhalation:dust,mist: Harmful if inhaled.

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ATE CA (oral)	1311.494 mg/kg bodyweight
ATE CA (dust,mist)	2.29 mg/l/4h
Unknown acute toxicity (GHS CA)	14% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral) 9% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

Acetone (67-64-1)

LD50 oral rat	5800 mg/kg (Source: NLM_CIP)
LD50 dermal rabbit	> 15700 mg/kg (Source: OECD_SIDS)
LC50 inhalation rat	50100 mg/m ³ (Exposure time: 8 h Source: OECD_SIDS)
ATE CA (oral)	5800 mg/kg bodyweight
ATE CA (vapours)	50.1 mg/l/4h
ATE CA (dust,mist)	50.1 mg/l/4h

Isobutane (75-28-5)

LC50 inhalation rat	> 800000 ppm (Exposure time: 15 min Source: ECHA_API)
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2-butoxyethanol (111-76-2)

LD50 oral rat	1200 mg/kg
LD50 oral	1414 mg/kg bodyweight Animal: guinea pig, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 1020 - 1961
LD50 dermal rabbit	435 mg/kg (Source: OECD_SIDS)

PRO FINISH SILICONE STOPPERS

Safety Data Sheet

According to the Hazardous Products Regulations (HPR) WHMIS 2022

2-butoxyethanol (111-76-2)	
LC50 inhalation rat	3 mg/l
LC50 inhalation rat	486 ppm/4h
ATE CA (oral)	1200 mg/kg bodyweight
ATE CA (Dermal)	435 mg/kg bodyweight
ATE CA (Gases)	486 ppmv/4h
ATE CA (vapours)	3 mg/l/4h
ATE CA (dust,mist)	3 mg/l/4h
Propylene glycol monomethyl ether (107-98-2)	
LD50 oral rat	5000 mg/kg (Source: JAPAN_GHS)
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: EU Method B.3 (Acute Toxicity (Dermal))
LD50 dermal rabbit	13 g/kg (Source: NLM_CIP)
LC50 inhalation rat	> 7559 ppm (Exposure time: 6 h Source: OECD_SIDS)
ATE CA (oral)	5000 mg/kg bodyweight
ATE CA (Dermal)	13000 mg/kg bodyweight
Toluene (108-88-3)	
LD50 oral rat	5580 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: EU Method B.1 (Acute Toxicity (Oral)), 95% CL: 5300 - 5910
LD50 oral	5000 mg/kg
LD50 dermal rabbit	12000 mg/kg (Source: JAPAN_GHS)
LC50 inhalation rat	12.5 mg/l/4h
ATE CA (oral)	5000 mg/kg bodyweight
ATE CA (Dermal)	12000 mg/kg bodyweight
ATE CA (Gases)	4500 ppmv/4h
ATE CA (vapours)	12.5 mg/l/4h
ATE CA (dust,mist)	1.5 mg/l/4h
Methanol (67-56-1)	
LD50 oral rat	1187 – 2769 mg/kg bodyweight Animal: rat
LD50 dermal rabbit	15840 mg/kg (Source: NLM_HSDB)
LC50 inhalation rat	64000 ppm/4h
ATE CA (oral)	100 mg/kg bodyweight
ATE CA (Dermal)	300 mg/kg bodyweight
ATE CA (Gases)	700 ppmv/4h
ATE CA (vapours)	3 mg/l/4h
ATE CA (dust,mist)	0.5 mg/l/4h
Xylenes (o-, m-, p- isomers) (1330-20-7)	
LD50 oral rat	3500 mg/kg (Source: JAPAN_GHS)

PRO FINISH SILICONE STOPPERS

Safety Data Sheet

According to the Hazardous Products Regulations (HPR) WHMIS 2022

Xylenes (o-, m-, p- isomers) (1330-20-7)	
LD50 dermal rabbit	> 4350 mg/kg (Source: JAPAN_GHS)
LD50 dermal	1700 mg/kg
LC50 inhalation rat	29.08 mg/l/4h
LC50 Inhalation - Rat (Vapours)	27.57 mg/l/4h
ATE CA (oral)	3500 mg/kg bodyweight
ATE CA (Dermal)	1700 mg/kg bodyweight
ATE CA (Gases)	4500 ppmv/4h
ATE CA (vapours)	11 mg/l/4h
ATE CA (dust,mist)	1.5 mg/l/4h
Isopropyl alcohol (67-63-0)	
LD50 oral rat	5045 mg/kg
LD50 dermal rabbit	4059 mg/kg (Source: JAPAN_GHS)
LC50 inhalation rat	> 10000 ppm (Exposure time: 6 h Source: ECHA_API)
ATE CA (oral)	5045 mg/kg bodyweight
ATE CA (Dermal)	4059 mg/kg bodyweight
n-Butyl acetate (123-86-4)	
LD50 oral rat	10768 mg/kg (Source: NLM_CIP)
LD50 dermal rabbit	> 17600 mg/kg (Source: NLM_CIP)
ATE CA (oral)	10768 mg/kg bodyweight
Ethylbenzene (100-41-4)	
LD50 oral rat	3500 mg/kg (Source: JAPAN_GHS)
LD50 dermal rabbit	15400 mg/kg (Source: JAPAN_GHS)
LC50 inhalation rat	17.4 mg/l/4h
ATE CA (oral)	3500 mg/kg bodyweight
ATE CA (Dermal)	15400 mg/kg bodyweight
ATE CA (Gases)	4500 ppmv/4h
ATE CA (vapours)	17.4 mg/l/4h
ATE CA (dust,mist)	1.5 mg/l/4h
Dibutyl phosphate (107-66-4)	
LD50 oral rat	3200 mg/kg (Source: JAPAN_GHS)
ATE CA (oral)	3200 mg/kg bodyweight
2-Pentanone, 4-methyl- (108-10-1)	
LD50 oral rat	2080 mg/kg (Source: JAPAN_GHS)
LD50 dermal rabbit	3000 mg/kg (Source: JAPAN_GHS)
LC50 inhalation rat	11.6 mg/l air Animal: rat, Animal sex: male, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)

PRO FINISH SILICONE STOPPERS

Safety Data Sheet

According to the Hazardous Products Regulations (HPR) WHMIS 2022

2-Pentanone, 4-methyl- (108-10-1)	
LC50 inhalation rat	2000 – 4000 ppm/4h
ATE CA (oral)	2080 mg/kg bodyweight
ATE CA (Dermal)	3000 mg/kg bodyweight
ATE CA (Gases)	2000 ppmv/4h
ATE CA (vapours)	11.6 mg/l/4h
ATE CA (dust,mist)	1.5 mg/l/4h
Isobutyl alcohol (78-83-1)	
LD50 oral rat	2460 mg/kg (Source: NLM_CIP)
LD50 dermal rabbit	3400 mg/kg (Source: NLM_CIP)
LC50 inhalation rat	> 18.18 mg/l (Exposure time: 6 h Source: ECHA_API)
ATE CA (oral)	2460 mg/kg bodyweight
ATE CA (Dermal)	3400 mg/kg bodyweight
Skin corrosion/irritation	: Causes skin irritation.
n-Butyl acetate (123-86-4)	
pH	6.2 Temp.: 20 °C Concentration: (≈)5 g/L
Dibutyl phosphate (107-66-4)	
pH	1.4 Temp.: 23 °C Concentration: 10 other:
Serious eye damage/irritation	: Causes serious eye damage.
n-Butyl acetate (123-86-4)	
pH	6.2 Temp.: 20 °C Concentration: (≈)5 g/L
Dibutyl phosphate (107-66-4)	
pH	1.4 Temp.: 23 °C Concentration: 10 other:
Respiratory or skin sensitization	: Not classified.
Germ cell mutagenicity	: Not classified.
Carcinogenicity	: Suspected of causing cancer.
2-butoxyethanol (111-76-2)	
IARC group	3 - Not classifiable
Toluene (108-88-3)	
IARC group	3 - Not classifiable
Xylenes (o-, m-, p- isomers) (1330-20-7)	
IARC group	3 - Not classifiable
Isopropyl alcohol (67-63-0)	
IARC group	3 - Not classifiable
Ethylbenzene (100-41-4)	
IARC group	2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status	Evidence of Carcinogenicity

PRO FINISH SILICONE STOPPERS

Safety Data Sheet

According to the Hazardous Products Regulations (HPR) WHMIS 2022

2-Pentanone, 4-methyl- (108-10-1)	
IARC group	2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status	Evidence of Carcinogenicity
Reproductive toxicity	: May damage fertility or the unborn child.
Acetone (67-64-1)	
LOAEL (animal/female, F0/P)	11298 mg/kg bodyweight Animal: mouse, Animal sex: female
NOAEL (animal/male, F0/P)	900 mg/kg bodyweight Animal: rat, Animal sex: male
Methanol (67-56-1)	
NOAEL (animal/male, F0/P)	< 1000 mg/kg bodyweight Animal: mouse, Animal sex: male
STOT-single exposure	: May cause damage to organs. May cause drowsiness or dizziness.
Acetone (67-64-1)	
STOT-single exposure	May cause drowsiness or dizziness.
Propylene glycol monomethyl ether (107-98-2)	
STOT-single exposure	May cause drowsiness or dizziness.
Toluene (108-88-3)	
STOT-single exposure	May cause drowsiness or dizziness.
Methanol (67-56-1)	
STOT-single exposure	Causes damage to organs (central nervous system, optic nerve) (oral). May cause drowsiness or dizziness.
Xylenes (o-, m-, p- isomers) (1330-20-7)	
STOT-single exposure	May cause drowsiness or dizziness.
Isopropyl alcohol (67-63-0)	
STOT-single exposure	May cause drowsiness or dizziness.
n-Butyl acetate (123-86-4)	
STOT-single exposure	May cause drowsiness or dizziness.
2-Pentanone, 4-methyl- (108-10-1)	
STOT-single exposure	May cause drowsiness or dizziness.
Isobutyl alcohol (78-83-1)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Causes damage to organs (central nervous system, optic nerve) through prolonged or repeated exposure (oral). May cause damage to organs (hearing organs) through prolonged or repeated exposure.
2-butoxyethanol (111-76-2)	
NOAEL (dermal, rat/rabbit, 90 days)	> 150 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study), Remarks on results: other:
Propylene glycol monomethyl ether (107-98-2)	
LOAEL (oral, rat, 90 days)	2757 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)

PRO FINISH SILICONE STOPPERS

Safety Data Sheet

According to the Hazardous Products Regulations (HPR) WHMIS 2022

Propylene glycol monomethyl ether (107-98-2)	
NOAEL (oral, rat, 90 days)	919 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)
NOAEL (dermal, rat/rabbit, 90 days)	> 1000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)
Toluene (108-88-3)	
LOAEL (oral, rat, 90 days)	1250 mg/kg bodyweight Animal: rat, Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEL (oral, rat, 90 days)	625 mg/kg bodyweight Animal: rat, Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEC (inhalation, rat, vapour, 90 days)	2.355 mg/l air Animal: rat, Guideline: EU Method B.29 (Sub-Chronic Inhalation Toxicity:90-Day Study)
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.
Xylenes (o-, m-, p- isomers) (1330-20-7)	
LOAEL (oral, rat, 90 days)	150 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents), Guideline: EPA OPP 82-1 (90-Day Oral Toxicity)
n-Butyl acetate (123-86-4)	
LOAEL (oral, rat, 90 days)	500 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 798.2650 (90-Day Oral Toxicity in Rodents)
NOAEL (oral, rat, 90 days)	125 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 798.2650 (90-Day Oral Toxicity in Rodents)
Ethylbenzene (100-41-4)	
NOAEL (oral, rat, 90 days)	75 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
STOT-repeated exposure	May cause damage to organs (hearing organs) through prolonged or repeated exposure.
2-Pentanone, 4-methyl- (108-10-1)	
LOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
NOAEL (oral, rat, 90 days)	250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
NOAEC (inhalation, rat, vapour, 90 days)	4.106 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)
Isobutyl alcohol (78-83-1)	
NOAEL (oral, rat, 90 days)	> 1450 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Aspiration hazard	: Not classified.
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Vaporizer	Aerosol
Propylene glycol monomethyl ether (107-98-2)	
Viscosity, kinematic	1.848 mm ² /s

PRO FINISH SILICONE STOPPERS

Safety Data Sheet

According to the Hazardous Products Regulations (HPR) WHMIS 2022

Toluene (108-88-3)	
Viscosity, kinematic	0.643 mm ² /s
Methanol (67-56-1)	
Viscosity, kinematic	0.687 – 0.746 mm ² /s
n-Butyl acetate (123-86-4)	
Viscosity, kinematic	0.83 mm ² /s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm ² /s)'
Ethylbenzene (100-41-4)	
Viscosity, kinematic	0.6 mm ² /s Temp.: 'other:' Parameter: 'kinematic viscosity (in mm ² /s)' Remarks on result: 'other:'
Dibutyl phosphate (107-66-4)	
Viscosity, kinematic	71.462 mm ² /s
Isobutyl alcohol (78-83-1)	
Viscosity, kinematic	3870.276 mm ² /s

Symptoms/effects after inhalation	: Harmful if inhaled. May cause irritation to the respiratory tract. May cause drowsiness or dizziness.
Symptoms/effects after skin contact	: Causes skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.
Symptoms/effects after eye contact	: Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns.
Symptoms/effects after ingestion	: Harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Chronic symptoms	: Suspected of causing cancer. May damage fertility or the unborn child. Causes damage to organs (central nervous system, optic nerve) through prolonged or repeated exposure (oral).
Other information	: Likely routes of exposure: ingestion, inhalation, skin and eye.

SECTION 12 Ecological information

12.1. Toxicity

Ecology - general	: May cause long-term adverse effects in the aquatic environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified.
Hazardous to the aquatic environment, long-term (chronic)	: Not classified.

Acetone (67-64-1)	
LC50 - Fish [1]	4.74 – 6.33 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: EPA)
LC50 - Fish [2]	6210 – 8120 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: IUCLID)
EC50 - Crustacea [1]	10294 – 17704 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
EC50 - Crustacea [2]	12600 – 12700 mg/l (Exposure time: 48 h - Species: Daphnia magna)
NOEC (chronic)	≥ 79 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
LOEC (chronic)	> 79 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

2-butoxyethanol (111-76-2)	
LC50 - Fish [1]	1490 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA)
LC50 - Fish [2]	2950 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus Source: IUCLID)
EC50 - Crustacea [1]	> 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)

PRO FINISH SILICONE STOPPERS

Safety Data Sheet

According to the Hazardous Products Regulations (HPR) WHMIS 2022

2-butoxyethanol (111-76-2)	
EC50 72h - Algae [1]	911 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	1840 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
NOEC chronic fish	> 100 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '21 d'
NOEC (chronic)	100 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
Propylene glycol monomethyl ether (107-98-2)	
LC50 - Fish [1]	20.8 g/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: IUCLID)
EC50 - Crustacea [1]	23300 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 - Other aquatic organisms [1]	2954 mg/l Test organisms (species): other aquatic crustacea:
Toluene (108-88-3)	
LC50 - Fish [1]	5.5 mg/l Test organisms (species): Oncorhynchus kisutch
LC50 - Fish [2]	12.6 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA)
EC50 - Crustacea [1]	5.46 – 9.83 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
EC50 - Crustacea [2]	11.5 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 72h - Algae [1]	12.5 mg/l (Species: Pseudokirchneriella subcapitata [static])
EC50 96h - Algae [1]	> 433 mg/l (Species: Pseudokirchneriella subcapitata)
NOEC chronic fish	1.39 mg/l Test organisms (species): Oncorhynchus kisutch Duration: '40 d'
NOEC (chronic)	0.74 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d'
NOEC chronic crustacea	0.74 mg/l
LOEC (chronic)	2.76 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d'
Methanol (67-56-1)	
LC50 - Fish [1]	15400 mg/l Test organisms (species): Lepomis macrochirus
LC50 - Fish [2]	> 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA)
EC50 96h - Algae [1]	≈ 22000 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
NOEC chronic fish	446.7 mg/l Test organisms (species): Pimephales promelas Duration: '28 d'
NOEC (chronic)	208 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
Xylenes (o-, m-, p- isomers) (1330-20-7)	
LC50 - Fish [1]	13.4 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)
LC50 - Fish [2]	2.661 – 4.093 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static] Source: EPA)
EC50 - Crustacea [1]	3.82 mg/l (Exposure time: 48 h - Species: water flea)
EC50 - Crustacea [2]	0.6 mg/l (Exposure time: 48 h - Species: Gammarus lacustris)
NOEC chronic fish	> 1.3 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '56 d'
LOEC (chronic)	3.16 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

PRO FINISH SILICONE STOPPERS

Safety Data Sheet

According to the Hazardous Products Regulations (HPR) WHMIS 2022

Isopropyl alcohol (67-63-0)	
LC50 - Fish [1]	10000 mg/l Test organisms (species): Pimephales promelas
LC50 - Fish [2]	9640 mg/l Test organisms (species): Pimephales promelas
EC50 - Crustacea [1]	13299 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 72h - Algae [1]	> 1000 mg/l (Species: Desmodesmus subspicatus)
EC50 96h - Algae [1]	> 1000 mg/l (Species: Desmodesmus subspicatus)
n-Butyl acetate (123-86-4)	
LC50 - Fish [1]	100 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA)
LC50 - Fish [2]	17 – 19 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)
EC50 - Crustacea [1]	44 mg/l Test organisms (species): Daphnia sp.
EC50 - Other aquatic organisms [1]	32 mg/l Test organisms (species): Artemia salina
EC50 72h - Algae [1]	674.7 mg/l (Species: Desmodesmus subspicatus)
EC50 72h - Algae [2]	246 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
NOEC (chronic)	23 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic algae	296 mg/l
LOEC (chronic)	47.6 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
Ethylbenzene (100-41-4)	
LC50 - Fish [1]	11 – 18 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static] Source: EPA)
LC50 - Fish [2]	4.2 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static] Source: EPA)
EC50 - Crustacea [1]	1.8 – 2.4 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 72h - Algae [1]	4.6 mg/l (Species: Pseudokirchneriella subcapitata)
EC50 72h - Algae [2]	2.6 – 11.3 mg/l (Species: Pseudokirchneriella subcapitata [static])
EC50 96h - Algae [1]	> 438 mg/l (Species: Pseudokirchneriella subcapitata)
EC50 96h - Algae [2]	1.7 – 7.6 mg/l (Species: Pseudokirchneriella subcapitata [static])
NOEC (chronic)	0.96 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d'
NOEC chronic crustacea	0.956 mg/l
LOEC (chronic)	1.7 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d'
Dibutyl phosphate (107-66-4)	
LC50 - Fish [1]	> 100 mg/l (Exposure time: 96 h - Species: Danio rerio [static] Source: ECHA)
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
2-Pentanone, 4-methyl- (108-10-1)	
LC50 - Fish [1]	505 mg/l
EC50 - Crustacea [1]	1250 mg/l
EC50 96h - Algae [1]	400 mg/l (Species: Pseudokirchneriella subcapitata)

PRO FINISH SILICONE STOPPERS

Safety Data Sheet

According to the Hazardous Products Regulations (HPR) WHMIS 2022

2-Pentanone, 4-methyl- (108-10-1)	
NOEC chronic fish	57 mg/l
NOEC chronic crustacea	7.8 mg/l
Isobutyl alcohol (78-83-1)	
LC50 - Fish [1]	375 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: IUCLID)
LC50 - Fish [2]	1370 – 1670 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)
EC50 - Crustacea [1]	1300 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 - Crustacea [2]	1070 – 1933 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
NOEC (chronic)	20 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

12.2. Persistence and degradability

PRO FINISH SILICONE STOPPERS	
Persistence and degradability	Not established.
Acetone (67-64-1)	
Persistence and degradability	Rapidly degradable
Isobutane (75-28-5)	
Persistence and degradability	Rapidly degradable
2-butoxyethanol (111-76-2)	
Persistence and degradability	Rapidly degradable
Propylene glycol monomethyl ether (107-98-2)	
Persistence and degradability	Rapidly degradable
Toluene (108-88-3)	
Persistence and degradability	Rapidly degradable
Methanol (67-56-1)	
Persistence and degradability	Rapidly degradable
Xylenes (o-, m-, p- isomers) (1330-20-7)	
Persistence and degradability	Rapidly degradable
Isopropyl alcohol (67-63-0)	
Persistence and degradability	Rapidly degradable
n-Butyl acetate (123-86-4)	
Persistence and degradability	Rapidly degradable
Ethylbenzene (100-41-4)	
Persistence and degradability	Rapidly degradable
Dibutyl phosphate (107-66-4)	
Persistence and degradability	Rapidly degradable

PRO FINISH SILICONE STOPPERS

Safety Data Sheet

According to the Hazardous Products Regulations (HPR) WHMIS 2022

Phosphoric acid, monobutyl ester (1623-15-0)	
Persistence and degradability	Rapidly degradable
2-Pentanone, 4-methyl- (108-10-1)	
Persistence and degradability	Rapidly degradable
Isobutyl alcohol (78-83-1)	
Persistence and degradability	Rapidly degradable
12.3. Bioaccumulative potential	
PRO FINISH SILICONE STOPPERS	
Bioaccumulative potential	Not established.
Acetone (67-64-1)	
BCF - Fish [1]	(0.69 dimensionless)
Partition coefficient n-octanol/water	-0.24
Isobutane (75-28-5)	
BCF - Fish [1]	1.57 – 1.97
Partition coefficient n-octanol/water	1.09 – 2.8 (at 20 °C (at pH 7))
2-butoxyethanol (111-76-2)	
Partition coefficient n-octanol/water	0.81 (at 25 °C (at pH 7))
Propylene glycol monomethyl ether (107-98-2)	
BCF - Fish [1]	(2 dimensionless)
Partition coefficient n-octanol/water	< 1 (at 20 °C (at pH 6.8))
Toluene (108-88-3)	
Partition coefficient n-octanol/water	2.73 (at 20 °C (at pH 7))
Methanol (67-56-1)	
BCF - Fish [1]	(10 dimensionless)
Partition coefficient n-octanol/water	-0.77
Xylenes (o-, m-, p- isomers) (1330-20-7)	
BCF - Fish [1]	0.6 – 15
Partition coefficient n-octanol/water	2.77 – 3.15
Isopropyl alcohol (67-63-0)	
Partition coefficient n-octanol/water	0.05 (at 25 °C)
n-Butyl acetate (123-86-4)	
Partition coefficient n-octanol/water	1.81 (at 23 °C)
Ethylbenzene (100-41-4)	
BCF - Fish [1]	(15 dimensionless)
Partition coefficient n-octanol/water	3.6 (at 20 °C (at pH 7.84))

PRO FINISH SILICONE STOPPERS

Safety Data Sheet

According to the Hazardous Products Regulations (HPR) WHMIS 2022

2-Pentanone, 4-methyl- (108-10-1)

Partition coefficient n-octanol/water : 1.9 (at pH 6.7)

Isobutyl alcohol (78-83-1)

BCF - Fish [1] : (no bioconcentration expected)

Partition coefficient n-octanol/water : 1 (at 25 °C (at pH 7))

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Ozone : Not classified.
Other information : No other effects known.
Fluorinated greenhouse gases : No

SECTION 13 Disposal considerations

Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. Container under pressure. Do not drill or burn even after use.
Additional information : Flammable vapours may accumulate in the container. Hazardous waste due to potential risk of explosion.

SECTION 14 Transport information

In accordance with TDG

14.1. UN Number

UN-No. (TDG) : UN1950

14.2. UN Proper Shipping Name

Proper Shipping Name (TDG) : AEROSOLS

14.3. Transport hazard class(es)

TDG
Transport hazard class(es) (TDG) : 2.1
Hazard labels (TDG) : 2.1
:



14.4. Packing group, if applicable

Packing group (TDG) : Not applicable

14.5. Environmental hazards

Dangerous for the environment : No
Other information : No supplementary information available.

PRO FINISH SILICONE STOPPERS

Safety Data Sheet

According to the Hazardous Products Regulations (HPR) WHMIS 2022

14.6. Special precautions for user

Special transport precautions : Do not handle until all safety precautions have been read and understood.

TDG

UN-No. (TDG) :

UN1950

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 the requirements for transporting gases in Part 5 (Means of Containment), 107 - (1) These Regulations, except for Parts 1 and 2, do not apply to the offering for transport, handling or transport 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 vessel 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.

Explosive Limit and Limited Quantity Index : 1 L

Excepted quantities (TDG) : E0

Passenger Carrying Road Vehicle or Passenger : 75 L

Carrying Railway Vehicle Index

14.7. Transport in bulk according to Annex II of MARPOL 73/78⁹ and the IBC Code¹⁰

Not applicable

SECTION 15 Regulatory information

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories.

SECTION 16 Other Information

Issue date : 08-12-2024

Revision date : 11-11-2025

Supersedes : 08-12-2024

Indication of changes:

SDS update.

Other information : None.

Prepared by : Nexreg Compliance Inc.

www.Nexreg.com



Full text of hazard classes and H-statements:

H222	Extremely flammable aerosol
H229	Pressurized container; may burst if heated
H302	Harmful if swallowed
H315	Causes skin irritation
H318	Causes serious eye damage
H332	Harmful if inhaled
H336	May cause drowsiness or dizziness

PRO FINISH SILICONE STOPPERS

Safety Data Sheet

According to the Hazardous Products Regulations (HPR) WHMIS 2022

Full text of hazard classes and H-statements:	
H351	Suspected of causing cancer.
H360	May damage fertility or the unborn child
H371	May cause damage to organs.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.

Safety Data Sheet (SDS), Canada - Nexreg 2025

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