

SAFETY DATA SHEET

The information in this Safety Data Sheet is required pursuant to Hazardous Product Regulations 2023.

Date of issue/Date of revision 31 July 2026

Version 1.07

Section 1. Identification

Product name : 97-676 GRAY METALHIDE ONE-PAC ZINC
Product code : 00338251
Other means of identification : Not available.
Product type : Liquid.

Relevant identified uses of the substance or mixture and uses advised against

Product use : Industrial applications, Used by spraying.
Use of the substance/ mixture : Coating.
Uses advised against : Not applicable.

Supplier : CANADIAN INDUSTRIES
INDUSTRIES CANADIENNES
1550, rue Ampère, bureau 500
Boucherville (Québec) J4B 7L4
Canada

The Pittsburgh Paints Co.
500 Cranberry Woods Drive,
Cranberry Township, PA 16066

Emergency telephone number : 1-833-477-1553 (U.S. and Canada)
SETIQ Interior de la República: 800-00-214-00 (México)

Technical Phone Number : 1-800-441-9695 (U.S. and México)
1-800-387-2253 (Canada)

Section 2. Hazard identification

Classification of the substance or mixture : FLAMMABLE LIQUIDS - Category 2
EYE IRRITATION - Category 2A
CARCINOGENICITY - Category 1A
TOXIC TO REPRODUCTION - Category 2
Health Hazards Not Otherwise Classified - Category 1

GHS label elements

Hazard pictograms :



Signal word : Danger

Section 2. Hazard identification

Hazard statements	: Highly flammable liquid and vapor. Causes serious eye irritation. May cause cancer. Suspected of damaging fertility or the unborn child.
Precautionary statements	
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wash thoroughly after handling.
Response	: IF exposed or concerned: Get medical advice or attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. 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 or attention.
Storage	: Store locked up.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	: Sanding and grinding dusts may be harmful if inhaled. This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated. Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 73.3% (oral), 83.1% (dermal), 12.5% (inhalation)
Other hazards which do not result in classification	: Prolonged or repeated contact may dry skin and cause irritation.

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Product name	: 97-676 GRAY METALHIDE ONE-PAC ZINC
Other means of identification	: Not available.

CAS number/other identifiers

Ingredient name	Synonyms	% (w/w)	CAS number
Ligroine	Low boiling point naphtha; Benzoline; Mineral spirits; VM & P Naphtha; Varnish makers' & painters' naphtha; Refined solvent naphtha; Petroleum spirit; Petroleum ether; Painters naphtha; Ligroin; Petroleum distillates	≥7 - ≤13*	8032-32-4
2-(propyloxy)ethanol	EGPE; Ethanol, 2-propoxy-; Ethylene glycol, monopropyl ether; Ethylene glycol mono-n-propyl ether; 2-propoxyethanol; Ethylene glycol monopropyl ether; Propyl cellosolve; Propylglycol;	≥7 - ≤13*	2807-30-9

Section 3. Composition/information on ingredients

Silicic acid, ethyl ester	2-Propyloxyethanol; Polyoxyalkylene (C2-4,8) monoalkyl(or alkenyl) (C1-24) ether (n1-150); Alkylene(C2-8) glycol monoalkyl(C2-8) ether		
	Ethyl silicate; Poly(tetraethoxysilane); ETHYL POLYSILICATE; Tetraethyl orthosilicate polymer; Silicic acid, tetraethylester polymer; Silicic acid, tetraethyl ester, homopolymer; Polysilicic acid, ethyl ester; Silicic acid ethyl ester; POLYSILICATE, ETHYL; SILICATE; SILICIC ACID-ETHYL ESTER	≥5 - ≤10*	11099-06-2
Mica-group minerals	Mica group minerals; Dimonite; mica; Micatex; Minerals, mica group; Silicate, mica; Silicates (less than 1 % crystalline silica) Mica; Silicates, Mica; Zimmwaldite; Roscoelite; Phlogopite	≥1 - ≤5*	12001-26-2
zinc oxide	CI 77947; Zinc oxide fume; Zinc peroxide; Zinc, oxide Fume; ZINC OXIDE (ZNO); FLOWERS OF ZINC; zinc oxide, nanoparticles, uncoated; zinc oxide, nanoparticles, coated with [3-(methacryloxy)propyl] trimethoxysilane; C. I. Pigment White 4; Zinc monoxide; Zinc white	≥1 - ≤5*	1314-13-2
tetraethyl silicate	ethyl silicate; tetraethyl orthosilicate; Silicic acid (H4SiO4), tetraethyl ester; Silane, tetraethoxy-; Tetraethoxysilane; Ethyl silicate condensed; Ethyl orthosilicate; Silicic acid, tetraethyl ester; SILICIC ACID, (H4SiO4), TETRAETHYL ESTER; Silicic acid (H4SiO4) tetraethyl ester; Tetraethoxy silicone	≥1 - ≤5*	78-10-4
Zeolites	ZEOLITE; Zeolite, MeO.Al2O3.2SiO2. NH2O, methyl = Na,K,Ca; aluminosilicates; Type-a Zeolite; Zeolite particles; Crystal structure types, zeolites; Aluminosilicates, zeolites; Zeolite, cuboidal, crystalline, synthetic, non-fibrous; zeolite dust; dioxosilane oxo (oxoalumanyloxy)alumane	≥0.5 - ≤1.5*	1318-02-1
ethanol	ethyl alcohol; ALCOHOL; Ethyl alcohol (Ethanol); EtOH; Grain alcohol; Cologne spirit; undenatured ethyl alcohol, of an alcoholic strength by volume of 80 % or more and containing up to 20 % activated carbon; aqueous solution, containing by weight - 25 % or more, but not more than 35 % of a copolymer of vinyl caprolactam, vinyl pyrrolidone, N,N-dimethylaminopropyl methacrylamide and	≥0.1 - 1*	64-17-5

Section 3. Composition/information on ingredients

	3-(methacryloylamino) propyllauryldimethylammonium chloride, - 10 % or more, but not more than 16 % of ethanol whether or not denatured with tert-butyl alcohol and/or denatonium benzoate; Blend, consisting of ethyl alcohol, ethyl acetate and aldehydes, higher alcohols and water; blend, consisting of ethyl alcohol, ethyl acetate and water; Denatured Alcohol		
crystalline silica, respirable powder (<10 microns)	alpha-quartz; Silica, crystalline (quartz); Silica, Crystalline Quartz; SILICA, CRYSTALLINE, QUARTZ; Silica-Crystalline, Quartz; Silica - Crystalline Quartz; Silica-Crystalline : Quartz; Silica, crystalline - quartz	≥0.1 - 1*	14808-60-7
toluene	Benzene, methyl-; Methylbenzene; Toluol; Phenyl methane; Methyl benzol; toluene, pure; toluene, crude	≥0.1 - 1*	108-88-3

Ranges if listed above for hazardous ingredient(s) are prescribed ranges. The actual concentration(s) or actual concentration range(s) are being withheld as a trade secret.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Section 4. First-aid measures

- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Defatting to the skin. May cause skin dryness and irritation.
- Ingestion** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness
- Inhalation** : Adverse symptoms may include the following:
reduced fetal weight
increase in fetal deaths
skeletal malformations
- Skin contact** : Adverse symptoms may include the following:
irritation
dryness
cracking
reduced fetal weight
increase in fetal deaths
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:
reduced fetal weight
increase in fetal deaths
skeletal malformations

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

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing media : Do not use water jet.

Specific hazards arising from the chemical : Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon oxides
halogenated compounds
metal oxide/oxides

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent

Section 6. Accidental release measures

material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Special precautions

: Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.

Advice on general occupational hygiene

: Wash hands thoroughly after handling.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

: Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits
Ligroine	CA Alberta Provincial (Canada, 3/2023) OEL 8 hours: 1400 mg/m ³ . OEL 8 hours: 300 ppm. CA Quebec Provincial (Canada, 2/2024) TWAEV 8 hours: 300 ppm. TWAEV 8 hours: 1370 mg/m ³ . CA Saskatchewan Provincial (Canada, 4/2021) STEL 15 minutes: 375 ppm. TWA 8 hours: 300 ppm.
2-(propyloxy)ethanol	CA Ontario Provincial (Canada, 6/2019) Absorbed through skin. TWA 8 hours: 110 mg/m ³ . TWA 8 hours: 25 ppm.
Silicic acid, ethyl ester Mica-group minerals	None. CA Alberta Provincial (Canada, 3/2023) OEL 8 hours: 3 mg/m ³ . Form: respirable. CA British Columbia Provincial (Canada, 3/2025) TWA 8 hours: 3 mg/m ³ . Form: respirable. CA Ontario Provincial (Canada, 6/2019) TWA 8 hours: 3 mg/m ³ . Form: respirable particulate matter. CA Quebec Provincial (Canada, 2/2024) TWAEV 8 hours: 0.1 mg/m ³ . Form: respirable aerosol fraction. CA Saskatchewan Provincial (Canada, 4/2021) STEL 15 minutes: 6 mg/m ³ . Form: respirable fraction. TWA 8 hours: 3 mg/m ³ . Form: respirable fraction.
zinc oxide	CA Alberta Provincial (Canada, 3/2023) OEL 8 hours: 2 mg/m ³ . Form: respirable. OEL 15 minutes: 10 mg/m ³ . Form: respirable. CA British Columbia Provincial (Canada, 3/2025) TWA 8 hours: 2 mg/m ³ . Form: respirable. STEL 15 minutes: 10 mg/m ³ . Form: respirable. CA Ontario Provincial (Canada, 6/2019) TWA 8 hours: 2 mg/m ³ . Form: respirable particulate matter. STEL 15 minutes: 10 mg/m ³ . Form: respirable particulate matter. CA Quebec Provincial (Canada, 2/2024) TWAEV 8 hours: 2 mg/m ³ . Form: respirable aerosol fraction. STEV 15 minutes: 10 mg/m ³ . Form: respirable aerosol fraction. CA Saskatchewan Provincial (Canada, 4/2021)

Section 8. Exposure controls/personal protection

tetraethyl silicate

STEL 15 minutes: 10 mg/m³. Form: respirable dust and fume.

TWA 8 hours: 2 mg/m³. Form: respirable dust and fume.

CA Alberta Provincial (Canada, 3/2023)

OEL 8 hours: 85 mg/m³.

OEL 8 hours: 10 ppm.

CA British Columbia Provincial (Canada, 3/2025)

TWA 8 hours: 10 ppm.

CA Ontario Provincial (Canada, 6/2019)

TWA 8 hours: 10 ppm.

CA Quebec Provincial (Canada, 2/2024)

TWAEV 8 hours: 10 ppm.

TWAEV 8 hours: 85 mg/m³.

CA Saskatchewan Provincial (Canada, 4/2021)

STEL 15 minutes: 15 ppm.

TWA 8 hours: 10 ppm.

Zeolites

CA British Columbia Provincial (Canada, 3/2025) [aluminum metal and insoluble compounds]

TWA 8 hours: 1 mg/m³. Form: respirable.

CA Ontario Provincial (Canada, 6/2019)

[Aluminum metal and insoluble compounds]

TWA 8 hours: 1 mg/m³. Form: respirable particulate matter.

CA Quebec Provincial (Canada, 2/2024)

[aluminum and its compounds]

TWAEV 8 hours: 5 mg/m³. Form: respirable aerosol fraction.

ethanol

CA Alberta Provincial (Canada, 3/2023)

OEL 8 hours: 1000 ppm.

OEL 8 hours: 1880 mg/m³.

CA British Columbia Provincial (Canada, 3/2025)

STEL 15 minutes: 1000 ppm.

CA Ontario Provincial (Canada, 6/2019)

STEL 15 minutes: 1000 ppm.

CA Quebec Provincial (Canada, 2/2024)

STEV 15 minutes: 1000 ppm.

CA Saskatchewan Provincial (Canada, 4/2021)

STEL 15 minutes: 1250 ppm.

TWA 8 hours: 1000 ppm.

crystalline silica, respirable powder (<10 microns)

CA Alberta Provincial (Canada, 3/2023)

OEL 8 hours: 0.025 mg/m³. Form: respirable particulate.

CA British Columbia Provincial (Canada, 3/2025) [silica, crystalline - alpha quartz and cristobalite]

TWA 8 hours: 0.025 mg/m³. Form: respirable.

Section 8. Exposure controls/personal protection

toluene

CA Ontario Provincial (Canada, 6/2019)
[Silica, Crystalline (Quartz/Tripoli)]
 TWA 8 hours: 0.1 mg/m³. Form: respirable particulate matter.

CA Quebec Provincial (Canada, 2/2024)
[Silica Crystalline -Quartz]
 TWAEV 8 hours: 0.1 mg/m³. Form: respirable aerosol fraction.

CA Saskatchewan Provincial (Canada, 4/2021)
 TWA 8 hours: 0.05 mg/m³. Form: respirable fraction.

CA Alberta Provincial (Canada, 3/2023)
 Absorbed through skin.
 OEL 8 hours: 50 ppm.
 OEL 8 hours: 188 mg/m³.

CA British Columbia Provincial (Canada, 3/2025)
 TWA 8 hours: 20 ppm.

CA Ontario Provincial (Canada, 6/2019)
 TWA 8 hours: 20 ppm.

CA Quebec Provincial (Canada, 2/2024)
 Ototoxicant.
 TWAEV 8 hours: 20 ppm.

CA Saskatchewan Provincial (Canada, 4/2021) Absorbed through skin.
 STEL 15 minutes: 60 ppm.
 TWA 8 hours: 50 ppm.

Biological exposure indices

No exposure indices known.

Consult local authorities for acceptable exposure limits.

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Section 8. Exposure controls/personal protection

- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

- Physical state** : Liquid.
- Color** : Gray.
- Odor** : Characteristic.
- Odor threshold** : Not available.
- pH** : Not applicable.
- Melting point/freezing point** : Not available.
- Boiling point or initial boiling point and boiling range** : >37.78°C (>100°F)
- Flash point** : Closed cup: 4.44°C (40°F)
- Evaporation rate** : Not available.
- Flammability** : Not available.
- Lower and upper explosion limit/flammability limit** : Not available.
- Vapor pressure** :

Section 9. Physical and chemical properties

Ingredient name	Vapor Pressure at 20°C			Vapor pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
2-(propyloxy)ethanol	4.82	0.64	EU A.4			

Relative vapor density : Not available.

Relative density : 2.1

Density (lbs / gal) : 17.53

% Solid. (w/w) : 74.951

Solubility(ies) :

Media	Result
cold water	Not soluble

Miscible with water : No.

Partition coefficient: n-octanol/water : Not applicable.

Auto-ignition temperature :

Ingredient name	°C	°F	Method
Ligroine	280 to 470	536 to 878	

Decomposition temperature : Not available.

Viscosity : Dynamic (room temperature): Not available.
Kinematic (room temperature): Not available.
Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)

Particle characteristics

Median particle size : Not applicable.

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

Incompatible materials : Reactive or incompatible with the following materials:
oxidizing materials

Hazardous decomposition products : Depending on conditions, decomposition products may include the following materials: carbon oxides halogenated compounds metal oxide/oxides

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name

Result

Ligroine

Rat - Inhalation - LC50 Gas.

3400 ppm [4 hours]

Toxic effects: Behavioral - Convulsions or effect on seizure threshold Behavioral - Muscle weakness

2-(propyloxy)ethanol

Rat - Oral - LD50

3089 mg/kg

Toxic effects: Behavioral - Tremor Lung, Thorax, or Respiration - Dyspnea Gross Metabolite Changes - Weight loss or decreased weight gain

Silicic acid, ethyl ester

Rabbit - Dermal - LD50

1337 mg/kg

Rat - Oral - LD50

6270 mg/kg

zinc oxide

Rat - Oral - LD50

>5000 mg/kg

OECD 401

Rat - Dermal - LD50

>2000 mg/kg

OECD 402

Rat - Inhalation - LC50 Dusts and mists>5700 mg/m³ [4 hours]

OECD 403

tetraethyl silicate

Rat - Oral - LD50

6270 mg/kg

Rabbit - Dermal - LD50

5.878 g/kg

Rat - Inhalation - LC50 Dusts and mists

10 to 16 mg/l [4 hours]

Zeolites

Rat - Oral - LD50

>5 g/kg

OECD 401

ethanol

Rat - Oral - LD50

7 g/kg

Toxic effects: Liver - Other changes Blood - Changes in serum composition (e.g., TP, bilirubin, cholesterol) Enzyme inhibition, induction, or change in blood or tissue levels - Phosphatases

Rat - Dermal - LD50

17100 mg/kg

Rat - Inhalation - LC50 Vapor124700 mg/m³ [4 hours]

toluene

Rat - Oral - LD50

5580 mg/kg

Rat - Inhalation - LC50 Vapor49 g/m³ [4 hours]

Conclusion/Summary [Product] : Not available.

Skin corrosion/irritation

Section 11. Toxicological information

Not available.

Conclusion/Summary [Product] : Not available.

Serious eye damage/eye irritation

Not available.

Conclusion/Summary [Product] : Not available.

Respiratory corrosion/irritation

Not available.

Conclusion/Summary [Product] : Not available.

Respiratory or skin sensitization

Not available.

Skin

Conclusion/Summary [Product] : Not available.

Respiratory

Conclusion/Summary [Product] : Not available.

Germ cell mutagenicity

Not available.

Conclusion/Summary [Product] : Not available.

Carcinogenicity

Not available.

Conclusion/Summary [Product] : Not available.

Classification

Product/ingredient name	IARC	NTP	ACGIH
Zeolites	3	-	A4
crystalline silica, respirable powder (<10 microns)	1	Known to be a human carcinogen.	A2
toluene	3	-	A4

Reproductive toxicity

Not available.

Conclusion/Summary [Product] : Not available.

Section 11. Toxicological information

Specific target organ toxicity (single exposure)

Product/ingredient name

tetraethyl silicate

toluene

Result

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

Specific target organ toxicity (repeated exposure)

Product/ingredient name

crystalline silica, respirable powder (<10 microns)

toluene

Result

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (inhalation) - Category 1
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (inhalation) - Category 2

Aspiration hazard

Product/ingredient name

Ligroine

toluene

Result

ASPIRATION HAZARD - Category 1
ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

Not available.

Potential acute health effects

- Eye contact** : Causes serious eye irritation.
Inhalation : No known significant effects or critical hazards.
Skin contact : Defatting to the skin. May cause skin dryness and irritation.
Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness
- Inhalation** : Adverse symptoms may include the following:
reduced fetal weight
increase in fetal deaths
skeletal malformations
- Skin contact** : Adverse symptoms may include the following:
irritation
dryness
cracking
reduced fetal weight
increase in fetal deaths
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:
reduced fetal weight
increase in fetal deaths
skeletal malformations

Section 11. Toxicological information

Delayed and immediate effects and also chronic effects from short and long term exposure

Conclusion/Summary : There are no data available on the mixture itself. This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary [Product] : Not available.

General : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

Carcinogenicity : May cause cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : Suspected of damaging fertility or the unborn child.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)

Section 11. Toxicological information

97-676 GRAY METALHIDE ONE-PAC ZINC	8178.3	2016.3	26414.3	502.2	N/A
Ligroine	N/A	N/A	3400	N/A	N/A
2-(propyloxy)ethanol	3089	1337	N/A	N/A	N/A
Silicic acid, ethyl ester	6270	N/A	N/A	N/A	N/A
zinc oxide	N/A	2500	N/A	N/A	N/A
tetraethyl silicate	6270	5878	N/A	11	N/A
ethanol	7000	17100	N/A	124.7	N/A
toluene	5580	N/A	N/A	49	N/A

Section 12. Ecological information

Toxicity

Product/ingredient name

Result

2-(propyloxy)ethanol

LC50

OECD [Fish, Acute Toxicity Test]

Fish

>5000 mg/l [96 hours]

LC50

OECD [Daphnia sp. Acute Immobilization Test and Reproduction Test]

Daphnia

>5000 mg/l [48 hours]

zinc oxide

Acute - EC50 - Fresh water

OECD

Daphnia - Water flea - *Daphnia magna* - Neonate

Age: <24 hours

0.481 mg/l [48 hours]

Effect: Intoxication

Acute - EC50

Algae

0.17 mg/l [72 hours]

Chronic - NOEC - Fresh water

Algae

0.017 mg/l [72 hours]

Zeolites

Acute - LC50

Fish

>680 mg/l [96 hours]

ethanol

Acute - EC50 - Fresh water

OECD

Daphnia - Water flea - *Daphnia magna*

Age: 8 to 24 hours

7640 mg/l [48 hours]

Effect: Intoxication

toluene

EC50

Daphnia

3.78 mg/l [48 hours]

LC50

Fish

5.5 mg/l [96 hours]

Conclusion/Summary [Product]

: Not available.

Section 12. Ecological information

Persistence and degradability

Not available.

Conclusion/Summary [Product] : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
ethanol	-	-	Readily
toluene	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
2-(propyloxy)ethanol	0.673	-	Low
tetraethyl silicate	3.18	-	Low
ethanol	-0.35	-	Low
toluene	2.73	90	Low

Mobility in soil

Soil/Water partition coefficient : Not available.

Other adverse effects

No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Product code 00338251	Date of issue 31 July 2026	Version 1.07
Product name 97-676 GRAY METALHIDE ONE-PAC ZINC		

Section 14. Transport information

	DOT	TDG	IMDG	IATA
UN number	UN1263	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT	PAINT
Class(es)	3	3	3	3
Packing group	II	II	II	II
Environmental hazards	No.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	(Zinc powder - zinc dust (stabilized))	(Zinc powder - zinc dust (stabilized))	Not applicable.

Additional information

- DOT** : Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.
- TDG** : The marine pollutant mark is not required when transported by road or rail.
- Product RQ (lbs)** : 1704.6
- RQ substances** : (Zinc powder - zinc dust (stabilized))
- IMDG** : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
- IATA** : The environmentally hazardous substance mark may appear if required by other transportation regulations.

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to IMO instruments : Not applicable.

Section 15. Regulatory information

Inventory list

- Australia** : All components are listed or exempted.
- Canada** : At least one component is not listed in DSL but all such components are listed in NDSL.
- China** : All components are listed or exempted.
- Eurasian Economic Union** : **Russian Federation inventory:** All components are listed or exempted.
- Japan** : **Japan inventory (CSCL):** All components are listed or exempted.
Japan inventory (ISHL): Not determined.
- New Zealand** : At least one component is not listed.
- Philippines** : All components are listed or exempted.
- Republic of Korea** : All components are listed or exempted.
- Taiwan** : Not determined.
- Thailand** : Not determined.
- Turkey** : Not determined.

Section 15. Regulatory information

United States : All components are active or exempted.
Viet Nam : Not determined.

Section 16. Other information

Please refer to Section 2 of this document for GHS hazard classifications.
The customer is responsible for determining the PPE code for this material.

Date of issue/Date of revision 31 July 2026

Organization that prepared the SDS : EHS

Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
N/A = Not available
SGG = Segregation Group
UN = United Nations

Indicates information that has changed from previously issued version.

Disclaimer

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein or from failure to observe the recommended measures for storage and handling of the products. Final determination of suitability of any material is the sole responsibility of the user. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. All materials may present unknown hazards and should be used with caution.