

SAFETY DATA SHEET

KS0024300

Section 1. Identification

Product name : KOOL SEAL® Fibered Aluminum Roofing Coating (3 year)

Product code : KS0024300

Other means of identification : Not available.

Product type : Liquid.

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

Paint or paint related material.

Manufacturer : KST Coatings
A Business Unit of the Sherwin-Williams Co.
101 W. Prospect Avenue
Cleveland, OH 44115


Emergency telephone number of the company : US / Canada: (216) 566-2917
Mexico: SETIQ 800-00-214-00 / 55-5559-1588 Available 24 hours and 365 days a year

Product Information Telephone Number : US / Canada: (888) 321-5665
Mexico: Not Available

Transportation Emergency Telephone Number : US / Canada: (216) 566-2917
Mexico: SETIQ 800-00-214-00 / 55-5559-1588 Available 24 hours and 365 days a year

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : FLAMMABLE LIQUIDS - Category 3
CARCINOGENICITY - Category 1A
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
ASPIRATION HAZARD - Category 1
Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 39.3% (oral), 68% (dermal), 68% (inhalation) 

GHS label elements

Hazard pictograms



Signal word : Danger

Hazard statements : Flammable liquid and vapor.
May be fatal if swallowed and enters airways.
May cause drowsiness or dizziness.
May cause cancer.
Causes damage to organs through prolonged or repeated exposure. (central nervous system (CNS), lungs)

Precautionary statements

Date of issue/Date of revision : 4/16/2025 **Date of previous issue** : 10/6/2024

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Version : 25

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SHW-85-NA-GHS-US

Section 2. Hazards identification

- General** : Keep out of reach of children. If medical advice is needed, have product container or label at hand.
- 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. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.
- Response** : IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
- Storage** : Store locked up. Store in a well-ventilated place. Keep container tightly closed.
- Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.
- Supplemental label elements** : DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Adequate ventilation required when sanding or abrading the dried film. If Adequate ventilation cannot be provided wear an approved particulate respirator (NIOSH approved). Follow respirator manufacturer's directions for respirator use. DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Abrading or sanding of the dry film may release Crystalline Silica which has been shown to cause lung damage and cancer under long term exposure.
Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage.
- Hazards not otherwise classified** : None known.

Section 3. Composition/information on ingredients

- Substance/mixture** : Mixture
- Other means of identification** : Not available.

CAS number/other identifiers

Ingredient name	% by weight	Identifiers
Light Aliphatic Hydrocarbon	≥25 - ≤50	64742-47-8
Asphalt (Petroleum)	≥25 - ≤50	8052-42-4
Stoddard Solvent	<10	8052-41-3
Mica	≤10	12001-26-2
Aluminum	≤5	7429-90-5
Perlite	≤5	93763-70-3
Cellulose	≤3	9004-34-6
Kaolin	≤3	1332-58-7
Heavy Aliphatic Solvent	≤3	64742-82-1
Crystalline Silica, respirable powder	<1	14808-60-7
1,3,5-Trimethylbenzene	<1	108-67-8
1,2,4-Trimethylbenzene	<1	95-63-6
Crystalline Silica, non-respirable	≤0.3	14808-60-7
Xylene, mixed isomers	≤0.3	1330-20-7

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

Section 3. Composition/information on ingredients

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

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

Section 4. First aid measures

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 it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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 necessary, call a poison center or physician. 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** : Flush contaminated skin with plenty of water. 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.
- Ingestion** : Get medical attention immediately. Call a poison center or physician. 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. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. 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** : No known significant effects or critical hazards.
- Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.

Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : Adverse symptoms may include the following:
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness
- Skin contact** : No specific data.
- Ingestion** : Adverse symptoms may include the following:
nausea or vomiting

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

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Section 4. First aid measures

- 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 : 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. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
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.

Remark : Flammable liquid.

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 :

Section 6. Accidental release measures

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). Water polluting material. May be harmful to the environment if released in large quantities.

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. Absorb with an inert 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. 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.

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. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not swallow. Avoid release to the environment. 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.

- Advice on general occupational hygiene** : 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 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. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits (OSHA United States)

Section 8. Exposure controls/personal protection

Ingredient name	CAS #	Exposure limits
Light Aliphatic Hydrocarbon	64742-47-8	ACGIH TLV (United States, 1/2024) [Kerosene] A3. Absorbed through skin. TWA 8 hours: 200 mg/m ³ (as total hydrocarbon vapor).
Asphalt (Petroleum)	8052-42-4	ACGIH TLV (United States, 1/2024) [Asphalt fumes] A4. TWA 8 hours: 0.5 mg/m ³ (as benzene soluble aerosol). Form: Inhalable fraction. NIOSH REL (United States, 10/2020) [ASPHALT FUMES] NIA. CEIL 15 minutes: 5 mg/m ³ . Form: Fume.
Stoddard Solvent	8052-41-3	ACGIH TLV (United States, 1/2024) TWA 8 hours: 100 ppm. TWA 8 hours: 525 mg/m ³ . NIOSH REL (United States, 10/2020) TWA 10 hours: 350 mg/m ³ . CEIL 15 minutes: 1800 mg/m ³ . OSHA PEL (United States, 5/2018) TWA 8 hours: 500 ppm. TWA 8 hours: 2900 mg/m ³ .
Mica	12001-26-2	ACGIH TLV (United States, 1/2024) TWA 8 hours: 0.1 mg/m ³ . Form: Respirable fraction. NIOSH REL (United States, 10/2020) TWA 10 hours: 3 mg/m ³ . Form: Respirable fraction.
Aluminum	7429-90-5	OSHA PEL Z3 (United States, 6/2016) TWA 8 hours: 20 mppcf. ACGIH TLV (United States, 1/2024) [Aluminum, metal and insoluble compounds] A4. TWA 8 hours: 1 mg/m ³ . Form: Respirable fraction. NIOSH REL (United States, 10/2020) TWA 10 hours: 10 mg/m ³ . Form: Total. TWA 10 hours: 5 mg/m ³ . Form: Respirable fraction. OSHA PEL (United States, 5/2018) TWA 8 hours: 15 mg/m ³ (as Al). Form: Total dust. TWA 8 hours: 5 mg/m ³ (as Al). Form: Respirable fraction.
Perlite	93763-70-3	NIOSH REL (United States, 10/2020) TWA 10 hours: 10 mg/m ³ . Form: Total. TWA 10 hours: 5 mg/m ³ . Form: Respirable fraction. OSHA PEL (United States, 5/2018) [Particulates not otherwise regulated] TWA 8 hours: 15 mg/m ³ . Form: Total dust. TWA 8 hours: 5 mg/m ³ . Form: Respirable fraction.
Cellulose	9004-34-6	ACGIH TLV (United States, 1/2024) TWA 8 hours: 10 mg/m ³ . NIOSH REL (United States, 10/2020) TWA 10 hours: 10 mg/m ³ . Form: Total.

Section 8. Exposure controls/personal protection

Kaolin	1332-58-7	<p>TWA 10 hours: 5 mg/m³. Form: Respirable fraction.</p> <p>OSHA PEL (United States, 5/2018) TWA 8 hours: 15 mg/m³. Form: Total dust. TWA 8 hours: 5 mg/m³. Form: Respirable fraction.</p> <p>ACGIH TLV (United States, 1/2024) A4. TWA 8 hours: 2 mg/m³. Form: Respirable fraction.</p> <p>NIOSH REL (United States, 10/2020) TWA 10 hours: 10 mg/m³. Form: Total. TWA 10 hours: 5 mg/m³. Form: Respirable fraction.</p> <p>OSHA PEL (United States, 5/2018) TWA 8 hours: 15 mg/m³. Form: Total dust. TWA 8 hours: 5 mg/m³. Form: Respirable fraction.</p>
Heavy Aliphatic Solvent Crystalline Silica, respirable powder	64742-82-1 14808-60-7	<p>None.</p> <p>ACGIH TLV (United States, 1/2024) [Silica, crystalline] A2. TWA 8 hours: 0.025 mg/m³. Form: Respirable fraction.</p> <p>NIOSH REL (United States, 10/2020) [SILICA, CRYSTALLINE] NIA. TWA 10 hours: 0.05 mg/m³. Form: respirable dust.</p> <p>OSHA PEL (United States, 5/2018) [Silica, crystalline] TWA 8 hours: 50 µg/m³. Form: Respirable dust.</p> <p>OSHA PEL Z3 (United States, 6/2016) TWA 8 hours: 250 / (%SiO₂+5) mppcf. Form: Respirable. TWA 8 hours: 10 / (%SiO₂+2) mg/m³. Form: Respirable.</p>
1,3,5-Trimethylbenzene	108-67-8	<p>ACGIH TLV (United States, 1/2024) [trimethyl benzene, isomers] TWA 8 hours: 10 ppm.</p> <p>NIOSH REL (United States, 10/2020) TWA 10 hours: 25 ppm. TWA 10 hours: 125 mg/m³.</p>
1,2,4-Trimethylbenzene	95-63-6	<p>ACGIH TLV (United States, 1/2024) A4. TWA 8 hours: 10 ppm.</p> <p>NIOSH REL (United States, 10/2020) TWA 10 hours: 25 ppm. TWA 10 hours: 125 mg/m³.</p>
Crystalline Silica, non-respirable	14808-60-7	<p>OSHA PEL (United States, 5/2018) [Silica, crystalline] TWA 8 hours: 50 µg/m³. Form: Respirable dust.</p> <p>OSHA PEL Z3 (United States, 6/2016) TWA 8 hours: 30 / (%SiO₂+2) mg/m³. Form: Total dust.</p>
Xylene, mixed isomers	1330-20-7	<p>ACGIH TLV (United States, 1/2024) [p-xylene and mixtures containing p-xylene] A4. Ototoxicant. TWA 8 hours: 20 ppm.</p>

Section 8. Exposure controls/personal protection

OSHA PEL (United States, 5/2018)

[Xylenes]

TWA 8 hours: 100 ppm.

TWA 8 hours: 435 mg/m³.

Occupational exposure limits (Canada)

Ingredient name	CAS #	Exposure limits
Petroleum refining, hydrotreated light distillate	64742-47-8	<p>CA British Columbia Provincial (Canada, 4/2024) [kerosene/jet fuels] Absorbed through skin. TWA 8 hours: 200 mg/m³ (as total hydrocarbon vapour). Notes: Application restricted to conditions in which there are negligible aerosol exposures.</p> <p>CA Ontario Provincial (Canada, 6/2019) Absorbed through skin. TWA 8 hours: 200 mg/m³ (as total hydrocarbon vapour).</p> <p>CA Quebec Provincial (Canada, 2/2024) [kerosene] C3. Absorbed through skin. TWAEV 8 hours: 200 mg/m³.</p> <p>CA Alberta Provincial (Canada, 3/2023) [Kerosene/Jet fuels] Absorbed through skin. OEL 8 hours: 200 mg/m³ (as total hydrocarbon vapour).</p>
Asphalt (Petroleum)	8052-42-4	<p>CA Saskatchewan Provincial (Canada, 4/2021) STEL 15 minutes: 1.5 mg/m³ (measured as benzene soluble aerosol). Form: Inhalable fume. TWA 8 hours: 0.5 mg/m³ (measured as benzene soluble aerosol). Form: Inhalable fume.</p> <p>CA British Columbia Provincial (Canada, 4/2024) Carc 2B. TWA 8 hours: 0.5 mg/m³ (as benzene-soluble aerosol). Form: Inhalable fume.</p> <p>CA Ontario Provincial (Canada, 6/2019) [Asphalt] TWA 8 hours: 0.5 mg/m³ (as benzene soluble aerosol). Form: Inhalable particulate matter..</p> <p>CA Quebec Provincial (Canada, 2/2024) TWAEV 8 hours: 5 mg/m³. Form: fume.</p> <p>CA Alberta Provincial (Canada, 3/2023) OEL 8 hours: 5 mg/m³. Form: Fume.</p>
Stoddard solvent	8052-41-3	<p>CA Saskatchewan Provincial (Canada, 4/2021) STEL 15 minutes: 125 ppm. TWA 8 hours: 100 ppm.</p> <p>CA British Columbia Provincial (Canada, 4/2024) TWA 8 hours: 290 mg/m³. STEL 15 minutes: 580 mg/m³.</p> <p>CA Ontario Provincial (Canada, 6/2019) TWA 8 hours: 100 ppm.</p>

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Kaolin	1332-58-7	<p>CA Quebec Provincial (Canada, 2/2024) TWAEV 8 hours: 100 ppm. TWAEV 8 hours: 525 mg/m³.</p> <p>CA Alberta Provincial (Canada, 3/2023) OEL 8 hours: 572 mg/m³. OEL 8 hours: 100 ppm.</p> <p>CA Saskatchewan Provincial (Canada, 4/2021) STEL 15 minutes: 4 mg/m³. Form: respirable fraction. TWA 8 hours: 2 mg/m³. Form: respirable fraction.</p> <p>CA British Columbia Provincial (Canada, 4/2024) TWA 8 hours: 2 mg/m³. Form: Respirable. Notes: the value is for particulate matter containing no asbestos and less than 1% crystalline silica.</p> <p>CA Ontario Provincial (Canada, 6/2019) TWA 8 hours: 2 mg/m³. Form: Respirable particulate matter..</p> <p>CA Quebec Provincial (Canada, 2/2024) TWAEV 8 hours: 2 mg/m³. Form: respirable aerosol fraction.</p> <p>CA Alberta Provincial (Canada, 3/2023) OEL 8 hours: 2 mg/m³. Form: Respirable.</p>
Quartz	14808-60-7	<p>CA Saskatchewan Provincial (Canada, 4/2021) TWA 8 hours: 0.05 mg/m³. Form: respirable fraction.</p> <p>CA British Columbia Provincial (Canada, 4/2024) [silica, crystalline - alpha quartz and cristobalite] Carc 2A, Carc 1. TWA 8 hours: 0.025 mg/m³. Form: Respirable.</p> <p>CA Ontario Provincial (Canada, 6/2019) [Silica, Crystalline (Quartz/Tripoli)] TWA 8 hours: 0.1 mg/m³. Form: Respirable particulate matter..</p> <p>CA Quebec Provincial (Canada, 2/2024) [Silica Crystalline -Quartz] C2. TWAEV 8 hours: 0.1 mg/m³. Form: respirable aerosol fraction.</p> <p>CA Alberta Provincial (Canada, 3/2023) A2. OEL 8 hours: 0.025 mg/m³. Form: Respirable particulate.</p>
Quartz	14808-60-7	<p>CA Quebec Provincial (Canada, 2/2024) [Silica Crystalline - Tripoli] TWAEV 8 hours: 0.1 mg/m³. Form: respirable aerosol fraction.</p> <p>CA Quebec Provincial (Canada, 2/2024) [Silica Crystalline -Quartz] C2. TWAEV 8 hours: 0.1 mg/m³. Form: respirable aerosol fraction.</p>
Xylene	1330-20-7	<p>CA Saskatchewan Provincial (Canada, 4/2021) [Xylene] STEL 15 minutes: 150 ppm.</p>

Section 8. Exposure controls/personal protection

		<p>TWA 8 hours: 100 ppm. CA British Columbia Provincial (Canada, 4/2024) [xylene (o, m & p isomers)] TWA 8 hours: 100 ppm. STEL 15 minutes: 150 ppm. CA Ontario Provincial (Canada, 6/2019) [Xylene (o-, m-, p-isomers)] STEL 15 minutes: 150 ppm. TWA 8 hours: 100 ppm. CA Quebec Provincial (Canada, 2/2024) [Xylene] TWAEV 8 hours: 100 ppm. TWAEV 8 hours: 434 mg/m³. STEV 15 minutes: 150 ppm. STEV 15 minutes: 651 mg/m³. CA Alberta Provincial (Canada, 3/2023) [Dimethylbenzene] OEL 8 hours: 100 ppm. OEL 15 minutes: 651 mg/m³. OEL 15 minutes: 150 ppm. OEL 8 hours: 434 mg/m³.</p>
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Occupational exposure limits (Mexico)

Ingredient name	CAS #	Exposure limits
Light Aliphatic Hydrocarbon	64742-47-8	ACGIH TLV (United States, 1/2024) [Kerosene] A3. Absorbed through skin. TWA 8 hours: 200 mg/m ³ (as total hydrocarbon vapor).
Stoddard Solvent	8052-41-3	NOM-010-STPS-2014 (Mexico, 4/2016) TWA 8 hours: 100 ppm.

Biological exposure indices (United States)

Ingredient name	Exposure indices
Xylene, mixed isomers	ACGIH BEI (United States, 1/2024) [xylenes (technical or commercial grades)] BEI: 0.3 g/g creatinine, methylhippuric acids [in urine]. Sampling time: end of shift.

Biological exposure indices (Canada)

No exposure indices known.

Biological exposure indices (Mexico)

No exposure indices known.

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

Section 8. Exposure controls/personal protection

- 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.
- 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: safety glasses with side-shields.
- 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** : Silver.
- Odor** : Not available.
- Odor threshold** : Not available.
- pH** : Not applicable.
- Melting point/freezing point** : Not available.
- Boiling point or initial boiling point and boiling range** : 141°C (285.8°F)
- Flash point** : Closed cup: 41°C (105.8°F) [Pensky-Martens Closed Cup]
- Evaporation rate** : 0.13 (butyl acetate = 1)
- Flammability** : Flammable liquid.
- Lower and upper explosion limit/flammability limit** : Lower: 0.8%
Upper: 6%
- Vapor pressure** : 0.69 kPa (5.17 mm Hg)
- Relative vapor density** : 5 [Air = 1]
- Relative density** : 0.99

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Section 9. Physical and chemical properties

Density : 0.99 g/cm³

Solubility(ies) :

Media	Result
cold water	Not soluble

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

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Dynamic (room temperature): Not available.
Kinematic (room temperature): Not available.
Kinematic (40°C (104°F)): <20.5 mm²/s (<20.5 cSt)

Molecular weight : Not applicable.

Particle characteristics

Median particle size : Not applicable.

Heat of combustion : 24.448 kJ/g

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. Do not allow vapor to accumulate in low or confined areas.

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

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result
Asphalt (Petroleum)	Rat - Oral - LD50 >5000 mg/kg <u>Toxic effects:</u> Gastrointestinal - Hypermotility, diarrhea
Cellulose	Rat - Oral - LD50 >5 g/kg
1,3,5-Trimethylbenzene	Rat - Oral - LD50 5000 mg/kg Rat - Inhalation - LC50 Vapor 24000 mg/m ³ [4 hours]
1,2,4-Trimethylbenzene	Rat - Oral - LD50 5 g/kg

Section 11. Toxicological information

Xylene, mixed isomers

Rat - Inhalation - LC50 Vapor
18000 mg/m³ [4 hours]
Rat - Oral - LD50
4300 mg/kg
Toxic effects: Liver - Other changes Kidney, Ureter, and Bladder - Other changes
Rat - Inhalation - LC50 Gas.
6700 ppm [4 hours]
Toxic effects: Behavioral - Somnolence (general depressed activity)

Conclusion/Summary [Product] : Not available.

Skin corrosion/irritation

Product/ingredient name

1,3,5-Trimethylbenzene

Result

Rabbit - Skin - Moderate irritant
Duration of treatment/exposure: 24 hours
Amount/concentration applied: 20 mg
Rat - Skin - Mild irritant
Duration of treatment/exposure: 8 hours
Amount/concentration applied: 60 uL
Rabbit - Skin - Moderate irritant
Duration of treatment/exposure: 24 hours
Amount/concentration applied: 500 mg
Rabbit - Skin - Moderate irritant
Amount/concentration applied: 100 %

Xylene, mixed isomers

Conclusion/Summary [Product] : Not available.

Serious eye damage/eye irritation

Product/ingredient name

Stoddard Solvent

Result

Human - Eyes - Mild irritant
Amount/concentration applied: 100 ppm
Rabbit - Eyes - Moderate irritant
Duration of treatment/exposure: 24 hours
Amount/concentration applied: 500 mg
Rabbit - Eyes - Mild irritant
Duration of treatment/exposure: 24 hours
Amount/concentration applied: 500 mg
Rabbit - Eyes - Mild irritant
Amount/concentration applied: 87 mg
Rabbit - Eyes - Severe irritant
Duration of treatment/exposure: 24 hours
Amount/concentration applied: 5 mg

1,3,5-Trimethylbenzene

Xylene, mixed isomers

Conclusion/Summary [Product] : Not available.

Respiratory corrosion/irritation

Not available.

Conclusion/Summary [Product] : Not available.

Section 11. Toxicological information

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	OSHA	IARC	NTP
Asphalt (Petroleum)	-	2B	-
Crystalline Silica, respirable powder	+	1	Known to be a human carcinogen.
Crystalline Silica, non-respirable	+	1	Known to be a human carcinogen.
Xylene, mixed isomers	-	3	-

Reproductive toxicity

Not available.

Conclusion/Summary [Product] : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Result
Light Aliphatic Hydrocarbon	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
Stoddard Solvent	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
Heavy Aliphatic Solvent	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
1,3,5-Trimethylbenzene	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
1,2,4-Trimethylbenzene	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
Xylene, mixed isomers	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

Section 11. Toxicological information

Specific target organ toxicity (repeated exposure)

Product/ingredient name

Result

Mica	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (lungs) (inhalation) - Category 1
Kaolin	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (lungs) (inhalation) - Category 1
Heavy Aliphatic Solvent	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (central nervous system (CNS)) - Category 1
Crystalline Silica, respirable powder	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (inhalation) - Category 1
Xylene, mixed isomers	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

Aspiration hazard

Product/ingredient name

Result

Light Aliphatic Hydrocarbon	ASPIRATION HAZARD - Category 1
Stoddard Solvent	ASPIRATION HAZARD - Category 1
Heavy Aliphatic Solvent	ASPIRATION HAZARD - Category 1
1,3,5-Trimethylbenzene	ASPIRATION HAZARD - Category 1
1,2,4-Trimethylbenzene	ASPIRATION HAZARD - Category 1
Xylene, mixed isomers	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

Not available.

Potential acute health effects

Eye contact	: No known significant effects or critical hazards.
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: No specific data.
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: No specific data.
Ingestion	: Adverse symptoms may include the following: nausea or vomiting

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

Short term exposure

Potential immediate effects	: Not available.
Potential delayed effects	: Not available.

Section 11. Toxicological information

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 : Causes damage to organs through prolonged or repeated exposure.

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

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

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)
1,3,5-Trimethylbenzene	5000	N/A	N/A	24	N/A
1,2,4-Trimethylbenzene	5000	N/A	N/A	18	N/A
Xylene, mixed isomers	4300	2500	N/A	N/A	N/A

Section 12. Ecological information

Toxicity

Product/ingredient name

Result

Light Aliphatic Hydrocarbon

Acute - LC50 - Fresh water

Fish - Bluegill - *Lepomis macrochirus*

Size: 35 to 75 mm

2200 µg/l [4 days]

Effect: Mortality

Aluminum

Acute - LC50 - Fresh water

Fish - Rainbow trout, donaldson trout - *Oncorhynchus mykiss* -

Embryo

120 µg/l [96 hours]

Effect: Mortality

Chronic - NOEC - Fresh water

Aquatic plants - Coontail - *Ceratophyllum demersum*

Weight: 3.5 g

9 mg/l [3 days]

Effect: Enzymes

Acute - LC50 - Fresh water

Daphnia - Water flea - *Daphnia magna*

38 mg/l [48 hours]

Effect: Mortality

1,3,5-Trimethylbenzene

Acute - LC50 - Marine water

Crustaceans - Dungeness or edible crab - *Cancer magister* - Zoea

Age: 1

13 mg/l [48 hours]

Section 12. Ecological information

Effect: Mortality
Acute - LC50 - Fresh water
 Fish - Goldfish - *Carassius auratus*
Age: 1 to 1.5 years; Size: 13 to 20 cm; Weight: 20 to 80 g
 12.52 mg/l [96 hours]
Effect: Mortality
Chronic - NOEC - Fresh water
 Daphnia - Water flea - *Daphnia magna*
Age: ≤24 hours
 0.4 mg/l [21 days]
Effect: Reproduction
Acute - LC50 - Marine water
 Crustaceans - Scud - *Elasmopus pecteniscus* - Adult
 4910 µg/l [48 hours]
Effect: Mortality
Acute - LC50 - Fresh water
 Fish - Fathead minnow - *Pimephales promelas*
Age: 34 days
 7720 µg/l [96 hours]
Effect: Mortality
Acute - LC50 - Marine water
 Crustaceans - Daggerblade grass shrimp - *Palaemon pugio*
 8500 µg/l [48 hours]
Effect: Mortality
Acute - LC50 - Fresh water
 Fish - Fathead minnow - *Pimephales promelas*
Age: 31 days; Size: 18.4 mm; Weight: 0.077 g
 13.4 mg/l [96 hours]
Effect: Mortality

1,2,4-Trimethylbenzene

Xylene, mixed isomers

Conclusion/Summary [Product] : Not available.

Persistence and degradability

Not available.

Conclusion/Summary [Product] : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Xylene, mixed isomers	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Heavy Aliphatic Solvent	-	10 to 2500	High
1,3,5-Trimethylbenzene	-	161	Low
1,2,4-Trimethylbenzene	-	243	Low
Xylene, mixed isomers	-	8.1 to 25.9	Low

Mobility in soil

Soil/Water partition coefficient : Not available.

Other adverse effects

Section 12. Ecological information







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.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IATA	IMDG
UN number	UN1263	UN1263	UN1263	UN1263	UN1263
UN proper shipping name	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL. Marine pollutant (Light Aliphatic Hydrocarbon, Heavy Aliphatic Solvent)
Transport hazard class(es)	3 	3 	3 	3 	3  
Packing group	III	III	III	III	III
Environmental hazards	No.	No.	No.	Yes. The environmentally hazardous substance mark is not required.	Yes.
Additional information	This product may be re-classified as "Combustible Liquid," unless transported by vessel or aircraft. Non-bulk packages (less than or equal to 119 gal) of combustible liquids are not	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3).	-	The environmentally hazardous substance mark may appear if required by other transportation regulations.	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. Emergency schedules F-E, S-E

Section 14. Transport information

	regulated as hazardous materials. <u>ERG No.</u> 128		<u>ERG No.</u> 128		<u>ERG No.</u> 128
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Special precautions for user : Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

Transport in bulk according to IMO instruments : Not available.

Proper shipping name : Not available.

Section 15. Regulatory information

U.S. Federal regulations :

California Prop. 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

International regulations

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

International lists

- Australia inventory (AII):** Not determined.
- China inventory (IECSC):** Not determined.
- Japan inventory (CSCL):** Not determined.
- Japan inventory (ISHL):** Not determined.
- Korea inventory (KECI):** Not determined.
- New Zealand Inventory of Chemicals (NZIoC):** Not determined.
- Philippines inventory (PICCS):** Not determined.
- Taiwan Chemical Substances Inventory (TCSI):** Not determined.
- Thailand inventory:** Not determined.
- Turkey inventory:** Not determined.
- Vietnam inventory:** Not determined.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health	*	3
Flammability		2
Physical hazards		3

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

Procedure used to derive the classification

Classification	Justification
FLAMMABLE LIQUIDS - Category 3	On basis of test data
CARCINOGENICITY - Category 1A	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1	Calculation method
ASPIRATION HAZARD - Category 1	Calculation method

History

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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.

Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is

Date of issue/Date of revision : 4/16/2025	Date of previous issue : 10/6/2024	Version : 25	20/21
KS0024300	KOOL SEAL® Fibered Aluminum Roofing Coating (3 year)	SHW-85-NA-GHS-US	

Section 16. Other information

responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.