

SAFETY DATA SHEET

Section 1. Identification

Product identifier : 1826-50158
Product name : Tufcote 2K Urethane Topcoat - Black
Other means of identification : 1250000393

Date of issue : 1/18/2024
Version : 12

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

Identified uses : Coating component.
Uses advised against : Not for sale to or use by consumers.

Supplier's details : Axalta Coating Systems, LLC
50 Applied Bank Blvd.
Suite 300
Glen Mills, PA 19342
USA

Product information : 855-6AXALTA

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

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 2
EYE IRRITATION - Category 2A
CARCINOGENICITY - Category 2
TOXIC TO REPRODUCTION - Category 2
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H225 - Highly flammable liquid and vapor.
H319 - Causes serious eye irritation.
H336 - May cause drowsiness or dizziness.
H351 - Suspected of causing cancer.
H361 - Suspected of damaging fertility or the unborn child.
H373 - May cause damage to organs through prolonged or repeated exposure.

Section 2. Hazards identification

Precautionary statements

- Prevention** : P201 - Obtain special instructions before use.
P280 - Wear protective gloves, protective clothing and eye or face protection.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P241 - Use explosion-proof electrical, ventilating or lighting equipment.
P242 - Use non-sparking tools.
P243 - Take action to prevent static discharges.
P260 - Do not breathe vapor.
- Response** : P308 + P313 - IF exposed or concerned: Get medical advice or attention.
P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists: Get medical advice or attention.
- Storage** : P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
P403 + P235 - Keep cool.
- Disposal** : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
- Hazards not otherwise classified** : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	CAS number	Concentration
BUTYL ACETATE	123-86-4	≥10 - ≤25
acetone	67-64-1	≤10
METHYL AMYL KETONE	110-43-0	≤10
2-ETHYLHEXYL ACETATE	103-09-3	≤5
ISOPROPYL ALCOHOL	67-63-0	≤3
carbon black, non respirable	1333-86-4	≤3
TOLUENE	108-88-3	≤2.9
solvent naphtha (petroleum), light aromatic	64742-95-6	≤3
4-methylpentan-2-one	108-10-1	≤2.5
ETHYL ACETATE	141-78-6	≤3

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

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

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. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- 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. If necessary, call a poison center or physician. 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** : 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.

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness
- Inhalation** : Adverse symptoms may include the following:
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness
reduced fetal weight
increase in fetal deaths
skeletal malformations
- Skin contact** : Adverse symptoms may include the following:
reduced fetal weight
increase in fetal deaths
skeletal malformations

Section 4. First aid measures

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.

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 dioxide
carbon monoxide

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".

Section 6. Accidental release measures

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 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 breathe vapor or mist. Do not ingest. 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.
- Storage code** : IA

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
<p data-bbox="89 445 304 472">BUTYL ACETATE</p> <p data-bbox="89 1167 181 1193">acetone</p> <p data-bbox="89 1823 392 1850">METHYL AMYL KETONE</p>	<p data-bbox="815 445 1315 472">OSHA PEL 1989 (United States, 3/1989).</p> <p data-bbox="815 479 1117 506">TWA: 150 ppm 8 hours.</p> <p data-bbox="815 512 1139 539">TWA: 710 mg/m³ 8 hours.</p> <p data-bbox="815 546 1161 573">STEL: 200 ppm 15 minutes.</p> <p data-bbox="815 580 1187 607">STEL: 950 mg/m³ 15 minutes.</p> <p data-bbox="815 613 1275 640">NIOSH REL (United States, 10/2020).</p> <p data-bbox="815 647 1129 674">TWA: 150 ppm 10 hours.</p> <p data-bbox="815 680 1155 707">TWA: 710 mg/m³ 10 hours.</p> <p data-bbox="815 714 1161 741">STEL: 200 ppm 15 minutes.</p> <p data-bbox="815 748 1187 775">STEL: 950 mg/m³ 15 minutes.</p> <p data-bbox="815 781 1251 808">OSHA PEL (United States, 5/2018).</p> <p data-bbox="815 815 1117 842">TWA: 150 ppm 8 hours.</p> <p data-bbox="815 848 1139 875">TWA: 710 mg/m³ 8 hours.</p> <p data-bbox="815 882 1495 909">ACGIH TLV (United States, 1/2022). [Butyl acetates all isomers]</p> <p data-bbox="815 916 1161 943">STEL: 150 ppm 15 minutes.</p> <p data-bbox="815 949 1098 976">TWA: 50 ppm 8 hours.</p> <p data-bbox="815 983 1310 1010">CAL OSHA PEL (United States, 5/2018).</p> <p data-bbox="815 1016 1187 1043">STEL: 950 mg/m³ 15 minutes.</p> <p data-bbox="815 1050 1161 1077">STEL: 200 ppm 15 minutes.</p> <p data-bbox="815 1084 1139 1111">TWA: 710 mg/m³ 8 hours.</p> <p data-bbox="815 1117 1114 1144">TWA: 150 ppm 8 hours.</p> <p data-bbox="815 1173 1259 1200">ACGIH TLV (United States, 1/2022).</p> <p data-bbox="815 1207 1117 1234">TWA: 250 ppm 8 hours.</p> <p data-bbox="815 1240 1161 1267">STEL: 500 ppm 15 minutes.</p> <p data-bbox="815 1274 1315 1301">OSHA PEL 1989 (United States, 3/1989).</p> <p data-bbox="815 1308 1117 1335">TWA: 750 ppm 8 hours.</p> <p data-bbox="815 1341 1155 1368">TWA: 1800 mg/m³ 8 hours.</p> <p data-bbox="815 1375 1177 1402">STEL: 1000 ppm 15 minutes.</p> <p data-bbox="815 1408 1203 1435">STEL: 2400 mg/m³ 15 minutes.</p> <p data-bbox="815 1442 1275 1469">NIOSH REL (United States, 10/2020).</p> <p data-bbox="815 1476 1129 1503">TWA: 250 ppm 10 hours.</p> <p data-bbox="815 1509 1155 1536">TWA: 590 mg/m³ 10 hours.</p> <p data-bbox="815 1543 1251 1570">OSHA PEL (United States, 5/2018).</p> <p data-bbox="815 1576 1129 1603">TWA: 1000 ppm 8 hours.</p> <p data-bbox="815 1610 1155 1637">TWA: 2400 mg/m³ 8 hours.</p> <p data-bbox="815 1644 1310 1671">CAL OSHA PEL (United States, 5/2018).</p> <p data-bbox="815 1677 1203 1704">STEL: 1780 mg/m³ 15 minutes.</p> <p data-bbox="815 1711 1161 1738">STEL: 750 ppm 15 minutes.</p> <p data-bbox="815 1744 986 1771">C: 3000 ppm</p> <p data-bbox="815 1778 1155 1805">TWA: 1200 mg/m³ 8 hours.</p> <p data-bbox="815 1812 1114 1839">TWA: 500 ppm 8 hours.</p> <p data-bbox="815 1868 1259 1895">ACGIH TLV (United States, 1/2022).</p> <p data-bbox="815 1901 1098 1928">TWA: 50 ppm 8 hours.</p> <p data-bbox="815 1935 1139 1962">TWA: 233 mg/m³ 8 hours.</p> <p data-bbox="815 1968 1315 1995">OSHA PEL 1989 (United States, 3/1989).</p> <p data-bbox="815 2002 1114 2029">TWA: 100 ppm 8 hours.</p> <p data-bbox="815 2036 1139 2063">TWA: 465 mg/m³ 8 hours.</p> <p data-bbox="815 2069 1275 2096">NIOSH REL (United States, 10/2020).</p>

Section 8. Exposure controls/personal protection

2-ETHYLHEXYL ACETATE

ISOPROPYL ALCOHOL

carbon black, non respirable

TOLUENE

TWA: 100 ppm 10 hours.

TWA: 465 mg/m³ 10 hours.

OSHA PEL (United States, 5/2018).

TWA: 100 ppm 8 hours.

TWA: 465 mg/m³ 8 hours.

CAL OSHA PEL (United States, 5/2018).

TWA: 235 mg/m³ 8 hours.

TWA: 50 ppm 8 hours.

None.

ACGIH TLV (United States, 1/2022).

TWA: 200 ppm 8 hours.

STEL: 400 ppm 15 minutes.

OSHA PEL 1989 (United States, 3/1989).

TWA: 400 ppm 8 hours.

TWA: 980 mg/m³ 8 hours.

STEL: 500 ppm 15 minutes.

STEL: 1225 mg/m³ 15 minutes.

NIOSH REL (United States, 10/2020).

TWA: 400 ppm 10 hours.

TWA: 980 mg/m³ 10 hours.

STEL: 500 ppm 15 minutes.

STEL: 1225 mg/m³ 15 minutes.

OSHA PEL (United States, 5/2018).

TWA: 400 ppm 8 hours.

TWA: 980 mg/m³ 8 hours.

CAL OSHA PEL (United States, 5/2018).

STEL: 1225 mg/m³ 15 minutes.

STEL: 500 ppm 15 minutes.

TWA: 980 mg/m³ 8 hours.

TWA: 400 ppm 8 hours.

OSHA PEL 1989 (United States, 3/1989).

TWA: 3.5 mg/m³ 8 hours.

NIOSH REL (United States, 10/2020).

TWA: 3.5 mg/m³ 10 hours.

TWA: 0.1 mg of PAHs/cm³ 10 hours.

ACGIH TLV (United States, 1/2022).

TWA: 3 mg/m³ 8 hours. Form: Inhalable fraction

OSHA PEL (United States, 5/2018).

TWA: 3.5 mg/m³ 8 hours.

CAL OSHA PEL (United States, 5/2018).

TWA: 3.5 mg/m³ 8 hours.

OSHA PEL 1989 (United States, 3/1989).

TWA: 100 ppm 8 hours.

TWA: 375 mg/m³ 8 hours.

STEL: 150 ppm 15 minutes.

STEL: 560 mg/m³ 15 minutes.

OSHA PEL Z2 (United States, 2/2013).

TWA: 200 ppm 8 hours.

CEIL: 300 ppm

AMP: 500 ppm 10 minutes.

NIOSH REL (United States, 10/2020).

Section 8. Exposure controls/personal protection

	<p>TWA: 100 ppm 10 hours. TWA: 375 mg/m³ 10 hours. STEL: 150 ppm 15 minutes. STEL: 560 mg/m³ 15 minutes. ACGIH TLV (United States, 1/2022). Ototoxicant. TWA: 20 ppm 8 hours. CAL OSHA PEL (United States, 5/2018). Absorbed through skin. STEL: 560 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. C: 500 ppm TWA: 37 mg/m³ 8 hours. TWA: 10 ppm 8 hours.</p>
<p>solvent naphtha (petroleum), light aromatic 4-methylpentan-2-one</p>	<p>None.</p> <p>ACGIH TLV (United States, 1/2022). TWA: 20 ppm 8 hours. STEL: 75 ppm 15 minutes. OSHA PEL 1989 (United States, 3/1989). TWA: 50 ppm 8 hours. TWA: 205 mg/m³ 8 hours. STEL: 75 ppm 15 minutes. STEL: 300 mg/m³ 15 minutes. NIOSH REL (United States, 10/2020). TWA: 50 ppm 10 hours. TWA: 205 mg/m³ 10 hours. STEL: 75 ppm 15 minutes. STEL: 300 mg/m³ 15 minutes. OSHA PEL (United States, 5/2018). TWA: 100 ppm 8 hours. TWA: 410 mg/m³ 8 hours. CAL OSHA PEL (United States, 5/2018). STEL: 300 mg/m³ 15 minutes. STEL: 75 ppm 15 minutes. TWA: 205 mg/m³ 8 hours. TWA: 50 ppm 8 hours.</p>
<p>ETHYL ACETATE</p>	<p>ACGIH TLV (United States, 1/2022). TWA: 400 ppm 8 hours. TWA: 1440 mg/m³ 8 hours. OSHA PEL 1989 (United States, 3/1989). TWA: 400 ppm 8 hours. TWA: 1400 mg/m³ 8 hours. NIOSH REL (United States, 10/2020). TWA: 400 ppm 10 hours. TWA: 1400 mg/m³ 10 hours. OSHA PEL (United States, 5/2018). TWA: 400 ppm 8 hours. TWA: 1400 mg/m³ 8 hours. CAL OSHA PEL (United States, 5/2018). TWA: 1400 mg/m³ 8 hours. TWA: 400 ppm 8 hours.</p>

Section 8. Exposure controls/personal protection

- 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.
- 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

- Appearance**
- Physical state** : Liquid.
- Color** : Black.
- Odor** : Not available.
- Odor threshold** : Not available.
- pH** : Not applicable.
- Melting point** : Technically not possible to measure
- Boiling point** : 56 to 152.1°C (132.8 to 305.8°F)
- Flash point** : Closed cup: -0.111°C (31.8°F)

Section 9. Physical and chemical properties

Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Lower: 1.1% Upper: 12.8%
Vapor pressure	: 3 kPa (22.4 mm Hg)
Vapor density	: Not available.
Density	: 0.981 g/cm ³
Partition coefficient: n-octanol/water	: Not applicable.
Auto-ignition temperature	: 268°C (514.4°F)
Decomposition temperature	: Not applicable.
Viscosity	: Not available.
Flow time (ISO 2431)	: Not available.

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	: 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	Species	Dose	Exposure
BUTYL ACETATE	LC50 Inhalation Vapor	Rat	21.1 mg/l	4 hours
	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Oral	Rat	10768 mg/kg	-
acetone	LC50 Inhalation Vapor	Rat	21 mg/l	4 hours
	LD50 Dermal	Rabbit	2001 mg/kg	-
	LD50 Oral	Rat	5800 mg/kg	-
METHYL AMYL KETONE	LC50 Inhalation Vapor	Rat	16.8 mg/l	4 hours
	LD50 Dermal	Rabbit	10332 mg/kg	-
	LD50 Oral	Rat	1600 mg/kg	-
2-ETHYLHEXYL ACETATE	LD50 Oral	Rat	3 g/kg	-
ISOPROPYL ALCOHOL	LC50 Inhalation Vapor	Rat - Male,	37.5 mg/l	4 hours

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		Female		
	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Oral	Rat	5000 mg/kg	-
carbon black, non respirable	LD50 Oral	Rat	>15400 mg/kg	-
TOLUENE	LC50 Inhalation Vapor	Rat	49 g/m ³	4 hours
	LD50 Dermal	Rat	5001 mg/kg	-
	LD50 Oral	Rat	5001 mg/kg	-
	TDL _o Dermal	Rat	26.4 mg/kg	-
solvent naphtha (petroleum), light aromatic	LD50 Dermal	Rabbit	3492 mg/kg	-
	LD50 Oral	Rat	8400 mg/kg	-
4-methylpentan-2-one	LC50 Inhalation Vapor	Rat	16.4 mg/l	4 hours
	LD50 Oral	Rat	2080 mg/kg	-
ETHYL ACETATE	LC50 Inhalation Vapor	Rat	22.6 mg/l	4 hours
	LD50 Dermal	Rabbit	20001 mg/kg	-
	LD50 Oral	Rat	5620 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Acetone	Eyes - Mild irritant	Human	-	186300 ppm	-
	Eyes - Mild irritant	Rabbit	-	10 uL	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 20 mg	-
	Eyes - Severe irritant	Rabbit	-	20 mg	-
	Skin - Mild irritant	Rabbit	-	395 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
METHYL AMYL KETONE	Skin - Mild irritant	Rabbit	-	24 hours 14 mg	-
2-ETHYLHEXYL ACETATE	Eyes - Mild irritant	Rabbit	-	500 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 250 ug	-
ISOPROPYL ALCOHOL	Skin - Mild irritant	Rabbit	-	500 mg	-
	Eyes - Moderate irritant	Rabbit	-	10 mg	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
TOLUENE	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Pig	-	24 hours 250 uL	-
4-methylpentan-2-one	Skin - Mild irritant	Rabbit	-	435 mg	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100 uL	-
	Eyes - Severe irritant	Rabbit	-	40 mg	-

Section 11. Toxicological information

	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
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Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
ISOPROPYL ALCOHOL	-	3	-
carbon black, non respirable	-	2B	-
TOLUENE	-	3	-
4-methylpentan-2-one	-	2B	-

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
BUTYL ACETATE	Category 3	-	Narcotic effects
acetone	Category 3	-	Narcotic effects
METHYL AMYL KETONE	Category 3	-	Narcotic effects
ISOPROPYL ALCOHOL	Category 3	-	Narcotic effects
TOLUENE	Category 3	-	Narcotic effects
solvent naphtha (petroleum), light aromatic	Category 3	-	Respiratory tract irritation
4-methylpentan-2-one	Category 3	-	Narcotic effects
	Category 3	-	Respiratory tract irritation
ETHYL ACETATE	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
TOLUENE	Category 2	-	-

Aspiration hazard

Name	Result
TOLUENE solvent naphtha (petroleum), light aromatic	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure : Not available.

Potential acute health effects

Section 11. Toxicological information

Eye contact	: Causes serious eye irritation.
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.

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: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: 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

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.

Long term exposure

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

Potential chronic health effects

Not available.

General	: May cause damage to organs through prolonged or repeated exposure.
Carcinogenicity	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: Suspected of damaging the unborn child.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: Suspected of damaging fertility.

Numerical measures of toxicity

Section 11. Toxicological information

Acute toxicity estimates

Route	ATE value
<input checked="" type="checkbox"/> Oral	11426.06 mg/kg
<input type="checkbox"/> Dermal	13665.69 mg/kg
<input type="checkbox"/> Inhalation (vapors)	161.01 mg/l






Section 12. Ecological information

There are no data available on the product itself. The product should not be allowed to enter drains or watercourses waterways.

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	IMDG	IATA
UN number	UN1263	UN1263	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT	PAINT	PAINT
Transport hazard class(es)	3 	3 	3 	3 	3 
Packing group	II	II	II	II	II
Environmental hazards	No.	No.	No.	No.	No.

Additional information

DOT Classification : **Reportable quantity** 38243.3 lbs / 17362.5 kg [4675.5 gal / 17698.7 L]. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

Section 14. Transport information

TDG Classification : Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3).

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 available.

The actual shipping description for this product may vary based several factors including, but not limited to, the volume of material, size of the container, mode of transport and use of exemptions or exceptions found in the applicable regulations. The information provided in Section 14 is one possible shipping description for this product. Consult your shipping specialist or supplier for appropriate assignment information.

Section 15. Regulatory information

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Listed

SARA 304 RQ

SARA 304 RQ : 213247506.2 lbs / 96814367.8 kg [26070999.2 gal / 98689467.7 L]

SARA 311/312

Classification : FLAMMABLE LIQUIDS - Category 2
 EYE IRRITATION - Category 2A
 CARCINOGENICITY - Category 2
 TOXIC TO REPRODUCTION - Category 2
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	4-methylpentan-2-one	108-88-3	≤2.9
	4-methylpentan-2-one	108-10-1	≤2.5
Supplier notification	4-methylpentan-2-one	108-88-3	≤2.9
	4-methylpentan-2-one	108-10-1	≤2.5

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

Inventory list

Canada : At least one component is not listed in DSL but all such components are listed in NDSL.
United States : All components are listed or exempted.

Section 16. Other information

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

Health	*	2
Flammability		3
Physical hazards		0

Section 16. Other information

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.

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.

National Fire Protection Association (U.S.A.)



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History

Date of issue : 1/18/2024

Version : 12

Product stewardship and regulatory compliance.

Key to abbreviations

: ATE = Acute Toxicity Estimate

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)

UN = United Nations

▣ Indicates information that has changed from previously issued version.

Notice to reader

This product is intended for industrial use only.

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