SECTION 1 – PRODUCT IDENTIFICATION AND COMPANY IDENTIFICATION

Manufacturer/Supplier: ..... **DURADEK CANADA**
8288 129th Street
Surrey, BC V3W 0A6
1-866-591-5594

DURADEK US
1142 Clay Street
North Kansas City, MO 64116
1-800-338-3568

www.duradek.com

Emergency Phone: ..... Canada - CANUTEC (24H) 1-613-996-6666
..... US – CHEMTRAC (24H) 1-800-424-9300

Revision Date: ..... November 15, 2019
Print Date: ..... November 15, 2019
Version Number: 5

Product: ..... D811-23-S PREMIUM DECKING ADHESIVE
Product Use: ..... INDUSTRIAL ADHESIVE - FOR INDUSTRIAL USE ONLY

SECTION 2 – HAZARDS IDENTIFICATION

Emergency Overview

Target Organs:
Kidney, liver, eyes, skin, reproductive, central nervous system.

GHS Classification:
Flammable Liquids (Cat. 2)
Skin Irritation (Cat. 2)
Eye Irritation (Cat. 2A)
Skin Sensitizer (Cat. 1B)
Reproductive Toxicity (Cat. 2)
Specific Target Organ Toxicity- Single Exposure (Cat. 3) - Central Nervous System
Specific Target Organ Toxicity - Repeated Exposure (Cat. 2)
Aspiration Hazard (Cat. 1)

GHS Label Elements, including precautionary statements:

Pictogram:

Signal Word:..... Danger

Hazard Statement(s):
H225: Highly flammable liquid and vapour
H315: Causes skin irritation
H319: Causes serious eye irritation
H317: May cause an allergic skin reaction
H361: Suspected of damaging fertility or the unborn child
H336: May cause drowsiness or dizziness
H373: May cause damage to organs through prolonged or repeated exposure
H304: May be fatal if swallowed and enters airways

Precautionary Statement(s):
P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking
P233: Keep container tightly closed
P240: Ground/bond container and receiving equipment
P241: Use explosion-proof electrical/ventilating/lighting/equipment
P242: Use only non-sparking tools
P243: Take precautionary measures against static discharge
P202: Do not handle until all safety precautions have been read and understood
P264: Wash skin thoroughly after handling
P280: Wear protective gloves/protective clothing/eye protection/face protection
P362+364: Take off contaminated clothing and wash it before reuse
P272: Contaminated work clothing should not be allowed out of the workplace
P303+361+353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P333+313: If skin irritation or a rash occurs: Get medical advice/attention
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P337+313: If eye irritation persists get medical advice/attention
P260: Do not breathe dust/fume/gas/mist/vapours/spray
P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P314: Get Medical advice/attention if you feel unwell
P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P331: Do NOT induce vomiting
P308+313: IF exposed or concerned: Get medical advice/attention
P405: Store locked up
P403+235: Store in a well ventilated place. Keep cool
P370+378: In case of fire: Use foam, water fog, dry chemical and/or carbon dioxide to extinguish
P501: Dispose of contents/container to comply with local, provincial, state, and federal regulations.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	CAS NUMBER	%
Acetone	67-64-1	7.00-13.00
Toluene	108-88-3	10.00-30.00
Methyl Ethyl Ketone	78-93-3	7.00-13.00
Hexane	110-54-3	5.00-30.00
Naphtha (Petroleum) Hydrotreated Light	64742-49-0	10.00-30.00
Xylene	1330-20-7	0.00-0.25
Oxirane,2,2'-((1-methylethylidene)Bis(4,1-phenyleneoxymethylene))Bis-,Homopolymer	25085-99-8	1.00-5.00

Refer to Section 8 for Occupational Exposure Guidelines.

SECTION 4 – FIRST-AID MEASURES

Inhalation:
This product is (extremely) flammable. Take proper precautions (e.g. remove any sources of ignition). Remove source of contamination or move victim to fresh air. If breathing is difficult, trained personnel should administer emergency oxygen.

Ingestion:
Never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Do not induce vomiting. Have victim drink 60-240 mL (2-8 oz.) of water. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Have victim rinse mouth with water again. Immediately obtain medical attention.

Eyes:
Quickly and gently blot or brush chemical off the face. Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. If a contact lens is present, do not delay irrigation or attempt to remove the lens. Take care not to rinse contaminated water into the unaffected eye or onto the face. Immediately obtain medical attention.

Skin:
Remove contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Quickly and gently, blot or brush away excess chemical. Wash gently and thoroughly with lukewarm gently flowing water and non-abrasive soap for 5 minutes. If irritation persists, repeat flushing. Obtain medical advice. Completely decominate clothing, shoes and leather goods before reuse or discard.

Note to Physician:
Treatment should be based on sound judgement of physician and individual reactions of patient.

SECTION 5 – FIRE-FIGHTING MEASURES

Extinguishing Media:
Foam, water spray, dry chemical, carbon dioxide.

Special Fire Fighting Procedures:
Use water spray to cool fire-exposed containers or structures. Do not use water in a jet.

Unusual Fire and Explosion Hazards:
Never use welding or cutting torch on or near container (even empty) as product (even residue) can ignite explosively. All containers, including pails, drums, tank cars & trucks should be grounded and/or bonded when material is transferred. Vapours and/or fumes from this product are heavier than air and may travel to a source of ignition and flash back causing explosion and fire. Product will float and can be reignited on surface of water.

Hazardous Combustion Products:
Carbon monoxide and/or carbon dioxide. Hydrochloric acid, chloroprene, aldehydes, phenolics.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions:
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations.

Environmental Precautions:
Prevent further leakage or spillage if safe to do so. Dyke and contain spills. Do not let product enter drains.

Methods and Materials for Containment and Clean Up:
Contain and/or dyke spills. Absorb with inert material, place in a suitable container. Report and dispose of according to local regulations.

SECTION 7 – HANDLING AND STORAGE

Storage:
Keep container tightly closed in a dry and well-ventilated area. Containers which are opened must be carefully resealed and kept upright to prevent leakage and evaporation.

Handling:
Use in a well ventilated area. Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use explosion-proof tools, equipment, and ventilation system. Keep away from sources of ignition. Take measures to prevent the build-up of electrostatic charge. Always ground and bond containers.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Threshold Limit Value: ..... 50 ppm ACGIH USA est. (Hexane)

Engineering Controls:
Use local, mechanical, explosion proof exhaust and/or ventilation system to avoid exposure and vapour accumulation.

Personal Protective Equipment:

Respiratory Protection:
Where risk assessment shows air-purifying respirators are appropriate, use an approved respirator for the concentration and type of hazardous materials in the workplace. Use respirators and components tested and approved under the appropriate government standards. Use respirators as backup to engineering controls if necessary.

Hand Protection:
Handle with gloves to minimize skin contact. Inspect gloves prior to use. Use proper glove removal technique (without touching the glove's outer surface) to avoid skin contact with product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash hands thoroughly.

Eye Protection:
Safety glasses and/or face shield. Use equipment for eye protection tested and approved under the appropriate government standards.

Protective Clothing:
Impervious clothing, flame retardant, antistatic protective clothing. The type of protective equipment should be selected according to the concentration and amount of hazardous materials at each specific workplace.

Additional Measures:
Handle in accordance with good industrial hygiene and safety practices. Wash hands before breaks and at the end of the workday.

SECTION 9 – PHYSICAL / CHEMICAL PROPERITES

Physical State: ..... Liquid
Appearance/Odour: ..... Yellow, with solvent odour
Odour Threshold: ..... Not available
Viscosity: ..... 1000 +/- 100 cps
Vapour Density (AIR=1): ..... Not available
Boiling Point: ..... 56°C est. (Acetone)
Melting/Freezing Point: ..... Not available
Vapour Pressure: ..... Not available
Evaporation Rate: ..... Not available
Specific Gravity: ..... Not available
Solubility in Water: ..... Not available
Solids: ..... 21.5% +/- 1% 2 hrs @ 135°C
VOC : ..... 627 g/L
Coeff. Water/Oil Dist.: ..... Not available

Flashpoint: ..... -22°C T.C.C. est. (Hexane)
Autoignition Temp: ..... 225°C est. (Hexane)
Upper Flammable Limit: ..... 12.8% est. (Acetone)
Lower Flammable Limit: ..... 1.2% est. (Hexane)

SECTION 10 – STABILITY AND REACTIVITY

Stability:
Stable

Hazardous Decomposition Products:
Carbon dioxide, carbon monoxide, aldehydes, formaldehyde, hydrogen chloride and phenolic derivatives.

Materials to Avoid:
Strong oxidizing agents, strong acids/bases and reducing agents, halogens, alkalis and amines. May react with phosphorous oxychloride.

Hazardous Reactions:
Vapours may form explosive mixture in air.

Conditions to Avoid:
Heat, flames and sparks.

SECTION 11 – TOXICOLOGICAL INFORMATION

HAZARDOUS INGREDIENT	LD50	LC50	HRS
Acetone	5800 mg/kg	50100 mg/kg	4
Toluene	>5580 mg/kg	28.8 mg/L	4
Methyl Ethyl Ketone	2737 mg/kg	11700 ppm	4
Hexane	28700 mg/kg	>43.2 mg/L	4
Naphtha (Petroleum) Hydrotreated Light	>5000 mg/kg	>20 mg/L	4
Xylene	3523 mg/kg	5000 ppm	4
Oxirane,2,2'-((1-methylethylidene)Bis(4,1-phenyleneoxymethylene))Bis-,Homopolymer	>15000 mg/kg	not available	-

Skin corrosion/irritation:
Rabbit - skin irritation - 24 hour

Serious eye damage/irritation:
Rabbit - irritating to eyes - OECD test guideline 405

Respiratory or skin sensitization:
Classified as a skin sensitizer.

Germ cell mutagenicity:
Not expected to be mutagenic in humans.

Carcinogenicity:
No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity:
Excessive exposure during pregnancy may be hazardous to the developing fetus. Experiments have shown reproductive toxicity effects in male and female lab animals.

Teratogenicity:
May cause teratogenic/embryotoxic effects at high doses.

Specific target organ toxicity (single exposure):
May cause central nervous system depression.

Specific target organ toxicity (repeated exposure):
May cause damage to organs through prolonged/repeated overexposure.

Aspiration hazard:
Classified as an aspiration hazard.

Potential Health Effects:

Inhalation:
Prolonged exposure to high vapour concentration can lead to central nervous system depression. Signs of this include headache, nausea, dizziness, blurred vision and incoordination. Excessive inhalation of vapours can cause nasal and respiratory irritation.

Ingestion:
May cause irritation of the mouth and throat, causing abdominal discomfort, nausea, vomiting and diarrhea.

Skin:
Prolonged and repeated contact can cause defatting and drying of the skin resulting in irritation and dermatitis.

Eyes:
May cause eye irritation. May cause burning sensation, redness, swelling, and/or blurred vision.

Signs and Symptoms of Exposure:
Overexposure may cause central nervous system effects. May irritate skin and eyes. Can cause reproductive effects.

Synergistic effects:
No data.

Additional information:
Repeated and prolonged overexposure may cause kidney and liver damage. May cause central nervous system effects.

SECTION 12 – ECOLOGICAL INFORMATION

Environmental Fate and Distribution:
Prevent from entering drains, sewers, streams or other bodies of water. If runoff occurs, notify authorities as required.

Aquatoxicity:
LC_{50} (Oncorhynchus Mykiss) 15.22-19.05 mg/L, 96 hours est. (Toluene)
LC_{50} (Pimephales Promelas) 2.5 mg/L, 96 hours est. (Hexane)

Persistence and degradability:
No data.

Bioaccumulative potential:
No data.

Mobility in soil:
No data.

Other adverse effects:
May be harmful to aquatic life.

SECTION 13 –DISPOSAL CONSIDERATIONS

Waste disposal:
Collect and reclaim or dispose in sealed containers at a licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Dispose of in accordance with all applicable regulations.

Contaminated Packaging:
Empty containers should be taken to an approved waste handling site for recycling or disposal. Since empty containers may retain product residue, follow any label warnings even after container is emptied.

SECTION 14 – TRANSPORTATION INFORMATION

TDG Classification (Ground Only): .....CLASS 3 UN1133 II
Proper Shipping Name (Ground Only): .....ADHESIVES

A scientific determination was concluded based on formulation ingredients on July 23, 2018 to define the Transportation of Dangerous Goods Classifications.

SECTION 15 - REGULATIONS

This material is included on the DLS (Canadian Domestic Substance List) under the CEPA (Canadian Environmental Protection Act).

This material has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

This material meets TSCA (Toxic Substances Control Act) inventory requirements.

Contents of this MSDS comply with the OSHA Hazard Communication Standard 29CFR 1910.1200

SECTION 16 – OTHER INFORMATION

LEGEND TO ABBREVIATIONS:
CAS: ..... CHEMICAL ABSTRACT SERVICES
IARC: ..... INTERNATIONAL AGENCY FOR RESEARCH ON CANCER
LC: ..... LETHAL CONCENTRATION
LD: ..... LETHAL DOSE
TDG: ..... TRANSPORTATION OF DANGEROUS GOODS
TWA: ..... TIME WEIGHTED AVERAGE
VOC: ..... VOLATILE ORGANIC COMPOUND

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