



GENERAL DESCRIPTION

A synthetic polymer based lap splicing cement.

BASIC USE

Specifically designed to bond Hydrotech's Flex-Flash UN (uncured neoprene) flashing membrane together.

ADVANTAGES

- High resistance to aging, heat and cold
- One-part system
- Long tack time for easy construction assembly

TECHNICAL SPECIFICATIONS

Color:	Black	Weight/Gallon:	7.3 lb
Solvents:	Toluene	Solids Content:	26-33%
	Hexane	Specific Gravity:	0.87
	Xylene	Shelf Life:	9 months, unopened
Base:	Synthetic Polymers		

APPLICATION

- Stir the Splicing Cement thoroughly before and during use.
- The mating surfaces of the Flex-Flash UN must be clean and free of any contaminants. The polyethylene release sheet should be removed from the Flex-Flash UN.
- Apply the Splicing Cement with a brush or roller. Coat both surfaces completely and evenly, avoiding globs and puddles, at a rate of 60 square feet per gallon on each surface.
- Allow both membrane surfaces to dry, typically 20-30 minutes depending on ambient temperature and humidity. When adequately dry the Splicing Cement should not stick or string-up to a dry finger touch.
- Mate the coated membrane surfaces and apply positive pressure toward the outside of the lap with a steel hand roller.
- Seal the exposed membrane sheet edge with Hydrotech's Lap Sealant.
- The minimum recommended application temperature is 40 °F or higher.

CAUTIONS

FLAMMABLE LIQUID!

Do not use near open fire or flame and extinguish all smoking materials. Use only in well ventilated areas. Avoid prolonged breathing of vapors and contact with skin.

A Material Safety Data Sheet is available upon request.

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systemic toxicity - repeated exposure (Inhalation)

auditory dysfunction and effects on colour vision))

GHS Label element

Hazard pictograms



Signal Word

: Danger

Hazard Statements

: Highly flammable liquid and vapor.
Causes skin irritation.
Causes serious eye irritation.
May cause drowsiness or dizziness.
Suspected of causing cancer if inhaled.
Suspected of damaging fertility or the unborn child.
Causes damage to organs (Nervous system, Neurologic: other (neuropsychological effects, auditory dysfunction and effects on colour vision)) through prolonged or repeated exposure if inhaled.
May cause damage to organs (Auditory system) through prolonged or repeated exposure.

Precautionary Statements

: **Prevention:**
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ ventilating/ lighting/ equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
Wash skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF exposed or concerned: Get medical advice/ attention.
If skin irritation occurs: Get medical advice/ attention.
If eye irritation persists: Get medical advice/ attention.

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Take off contaminated clothing and wash before reuse.
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

Store in a well-ventilated place. Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.

Disposal:

Dispose of contents/ container to an approved waste disposal plant.

Other hazards

Static Accumulating liquid

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Static Accumulator

Chemical nature : Defatter

Hazardous components

Chemical Name	CAS-No.	Classification	Concentration (%)
TOLUENE	108-88-3	Flam. Liq. 2; H225 Skin Irrit. 2; H315 Eye Irrit. 2A; H319 Repr. 2; H361 STOT SE 3; H336 STOT RE 2; H373 Asp. Tox. 1; H304	55.58
N-HEXANE	110-54-3	Flam. Liq. 2; H225 Skin Irrit. 2; H315 Repr. 2; H361 STOT SE 3; H336 STOT RE 1; H372	16.17

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		Asp. Tox. 1; H304	
XYLENE	1330-20-7	Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2A; H319 STOT SE 3; H335, H336 Asp. Tox. 1; H304	5.02
SEVERELY SOLVENT REFINED HEAVY PARAFFINIC PETROLEUM OIL	64741-88-4	Not a hazardous substance or mixture.	1.97
SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC	64742-89-8	Flam. Liq. 2; H225 STOT SE 3; H336 Asp. Tox. 1; H304	1.68
METHYL-3-PENTANE	96-14-0	Flam. Liq. 2; H225 Eye Irrit. 2A; H319 STOT SE 3; H336 Asp. Tox. 1; H304	1.68
METHYLCYCLOPENTANE	96-37-7	Flam. Liq. 2; H225 Skin Irrit. 2; H315 Eye Irrit. 2A; H319 STOT SE 3; H335, H336 Asp. Tox. 1; H304	1.68

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ETHYL BENZENE	100-41-4	Flam. Liq. 2; H225 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2A; H319 STOT RE 2; H373 Asp. Tox. 1; H304	1.54
CARBON BLACK	1333-86-4	Carc. 2; H351	0.39

SECTION 4. FIRST AID MEASURES

General advice	: Move out of dangerous area. Call a POISON CENTRE or doctor/physician if exposed or you feel unwell. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.
If inhaled	: Move to fresh air. Keep patient warm and at rest. If unconscious place in recovery position and seek medical advice. Consult a physician after significant exposure.
In case of skin contact	: Remove contaminated clothing. If irritation develops, get medical attention. If on skin, rinse well with water. Wash contaminated clothing before re-use. If on clothes, remove clothes.
In case of eye contact	: Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye.
If swallowed	: Obtain medical attention. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

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Most important symptoms and effects, both acute and delayed

: Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:
redness of the skin
stomach or intestinal upset (nausea, vomiting, diarrhea)
irritation (nose, throat, airways)
discomfort in the chest
temporary changes in mood and behavior
effects on memory
Shortness of breath
confusion
irregular heartbeat
Inhalation of high concentrations of this material, as could occur in enclosed spaces or during deliberate abuse, may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material.

Acute aspiration of large amounts of oil-laden material may produce a serious aspiration pneumonia. Patients who aspirate these oils should be followed for the development of long-term sequelae. Repeated aspiration of small quantities of mineral oil can produce chronic inflammation of the lungs (i.e. lipoid pneumonia) that may progress to pulmonary fibrosis. Symptoms are often subtle and radiological changes appear worse than clinical abnormalities. Occasionally, persistent cough, irritation of the upper respiratory tract, shortness of breath with exertion, fever, and bloody sputum occur. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary abnormalities.

Causes skin irritation.

Causes serious eye irritation.

May cause drowsiness or dizziness.

Suspected of causing cancer if inhaled.

Suspected of damaging fertility or the unborn child.

Causes damage to organs through prolonged or repeated exposure if inhaled.

May cause damage to organs through prolonged or repeated exposure.

Notes to physician

: No hazards which require special first aid measures.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media

: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Water spray

Foam

Alcohol-resistant foam

Carbon dioxide (CO2)

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Dry chemical

Unsuitable extinguishing media	: High volume water jet
Specific hazards during firefighting	: Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	: carbon dioxide and carbon monoxide Hydrocarbons toxic monomer fumes Aldehydes Bromine organic compounds
Specific extinguishing methods	:
	Product is compatible with standard fire-fighting agents.
Further information	: Do not use a solid water stream as it may scatter and spread fire. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Use a water spray to cool fully closed containers.
Special protective equipment for firefighters	: In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Evacuate personnel to safe areas. Remove all sources of ignition. Use personal protective equipment. Ensure adequate ventilation. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
Environmental precautions	: Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	: Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to

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local / national regulations (see section 13).

Other information : Comply with all applicable federal, state, and local regulations.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Open drum carefully as content may be under pressure.
 Avoid formation of aerosol.
 Provide sufficient air exchange and/or exhaust in work rooms.
 Do not breathe vapours/dust.
 Do not smoke.
 Container hazardous when empty.
 Take precautionary measures against static discharges.
 Avoid exposure - obtain special instructions before use.
 Avoid contact with skin and eyes.
 Smoking, eating and drinking should be prohibited in the application area.
 For personal protection see section 8.
 Dispose of rinse water in accordance with local and national regulations.
 Container may be opened only under exhaust ventilation hood.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
 Containers which are opened must be carefully resealed and kept upright to prevent leakage.
 Observe label precautions.
 No smoking.
 Electrical installations / working materials must comply with the technological safety standards.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
TOLUENE	108-88-3	TWA	20 ppm	ACGIH
		REL	100 ppm 375 mg/m3	NIOSH/GUID E
		STEL	150 ppm 560 mg/m3	NIOSH/GUID E
		TWA	200 ppm	OSHA/Z2
		Ceiling	300 ppm	OSHA/Z2
		MAX. CONC	500 ppm	OSHA/Z2
N-HEXANE	110-54-3	TWA	50 ppm	ACGIH
		REL	50 ppm	NIOSH/GUID

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			180 mg/m3	E
		PEL	500 ppm 1,800 mg/m3	OSHA_TRANS
		TWA	50 ppm 180 mg/m3	TN OEL
XYLENE	1330-20-7	TWA	100 ppm	ACGIH
		STEL	150 ppm	ACGIH
		PEL	100 ppm 435 mg/m3	OSHA_TRANS
		REL	100 ppm 435 mg/m3	NIOSH/GUIDE
		STEL	150 ppm 655 mg/m3	NIOSH/GUIDE
SEVERELY SOLVENT REFINED HEAVY PARAFFINIC PETROLEUM OIL	64741-88-4	PEL	500 ppm 2,000 mg/m3	OSHA_TRANS
		REL	5 mg/m3 Mist.	NIOSH/GUIDE
		STEL	10 mg/m3 Mist.	NIOSH/GUIDE
		PEL	5 mg/m3 Mist.	OSHA_TRANS
		TWA	5 mg/m3 Inhalable fraction.	ACGIH
SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC	64742-89-8	TWA	500 ppm	OSHA_TRANS
		TWA	300 ppm	ACGIH
		TWA	2,000 mg/m3	OSHA_TRANS
		TWA	1,370 mg/m3	ACGIH
METHYL-3-PENTANE	96-14-0	REL	100 ppm 350 mg/m3	NIOSH/GUIDE
		Ceil_Time	510 ppm 1,800 mg/m3	NIOSH/GUIDE
		TWA	500 ppm 1,800 mg/m3	TN OEL
		STEL	1,000 ppm 3,600 mg/m3	TN OEL
		TWA	500 ppm	ACGIH
		STEL	1,000 ppm	ACGIH
		ST ESL	3,500 µg/m3	TX ESL
		ST ESL	1,000 ppb	TX ESL
		AN ESL	350 µg/m3	TX ESL
		AN ESL	100 ppb	TX ESL
		TWA	500 ppm 1,800 mg/m3	Z1A
		STEL	1,000 ppm 3,600 mg/m3	Z1A
		TWA PEL	500 ppm 1,800 mg/m3	US CA OEL

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		STEL	1,000 ppm 3,600 mg/m3	US CA OEL
ETHYL BENZENE	100-41-4	TWA	20 ppm	ACGIH
		REL	100 ppm 435 mg/m3	NIOSH/GUID E
		STEL	125 ppm 545 mg/m3	NIOSH/GUID E
		PEL	100 ppm 435 mg/m3	OSHA_TRA NS
CARBON BLACK	1333-86-4	REL	0.1 mg/m3	NIOSH/GUID E
		REL	3.5 mg/m3	NIOSH/GUID E
		PEL	3.5 mg/m3	OSHA_TRA NS
		TWA	3 mg/m3 Inhalable fraction.	ACGIH
TALC	14807-96-6	TWA	2 mg/m3 Respirable fraction.	ACGIH
		REL	2 mg/m3 Respirable.	NIOSH/GUID E
		TWA	0.1 mg/m3 Respirable.	Z3
		TWA	0.3 mg/m3 Total dust.	Z3

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
TOLUENE	108-88-3	o-Cresol, with hydrolysis	Creatinine in urine	Sampling time: End of shift.	0.3 mg/g	
Remarks:	Background					
		toluene	Urine	Sampling time: End of shift.	0.03 mg/l	
		toluene	Blood	Sampling time: Prior to last shift of work week.	0.02 mg/l	
N-HEXANE	110-54-3	2,5-Hexanedion, without hydrolysis	Urine	Sampling time: End of shift at end of work week.	0.4 mg/l	
XYLENE	1330-20-7	Methylhippuric acids	Creatinine in urine	Sampling time: End of shift.	1.5 g/g	
ETHYL BENZENE	100-41-4	Sum of	Creatinine	Sampling	0.15 g/g	ACGIH

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		mandelic acid and phenylglyoxylic acid	in urine	time: End of shift.		BEI
Remarks:	Nonspecific					

Engineering measures : Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Personal protective equipment

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

Hand protection
Remarks

: The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection

: Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

Skin and body protection

: Wear as appropriate:
impervious clothing
Safety shoes
Flame-resistant clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Discard gloves that show tears, pinholes, or signs of wear.
Wear resistant gloves (consult your safety equipment supplier).

Hygiene measures

: Wash hands before breaks and at the end of workday.
When using do not eat or drink.
When using do not smoke.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid

Colour : black

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Odour : No data available
 Odour Threshold : No data available
 pH : No data available
 : No data available
 Boiling point/boiling range : > 147 °F / 64 °C
 Flash point : < 0 °F / < -18 °C
 Method: Seta closed cup
 Evaporation rate : < 1
 Ethyl Ether
 Flammability (solid, gas) :
 No data available
 Flammability (liquids) : Static Accumulating liquid
 Flammability (liquids) :
 Upper explosion limit : 7 %(V)
 Calculated Explosive Limit
 Lower explosion limit : 1 %(V)
 Calculated Explosive Limit
 Vapour pressure : 184 hPa (20 °C)
 Calculated Vapor Pressure
 Relative vapour density : > 1AIR=1
 Relative density : 0.849 (25 °C)
 Density : 0.849 g/cm3 (20 °C)
 Solubility(ies)
 Water solubility : insoluble
 Solubility in other solvents : No data available
 Partition coefficient: n-octanol/water : No data available
 Thermal decomposition : No data available
 Viscosity
 Viscosity, dynamic : ca. 1,800 mPa.s (20 °C)
 Viscosity, kinematic : No data available

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Oxidizing properties : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : Vapours may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.
excessive heat

Incompatible materials : Acids
alkalis
Oxidizing agents
peroxides

Hazardous decomposition products : Aldehydes
carbon dioxide and carbon monoxide
Hydrocarbons
organic compounds

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation
Skin contact
Eye Contact
Ingestion

Acute toxicity

Not classified based on available information.

Components:

TOLUENE:

Acute oral toxicity : LD 50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC 50 (Rat): 8000 ppm
Exposure time: 4 h

Acute dermal toxicity : LD 50 (Rabbit): 12,124 mg/kg

N-HEXANE:

Acute oral toxicity : LD 50 (Rat, male and female): ca. 16 g/kg

Acute inhalation toxicity : LC50 (Rat, male): > 5000 ppm
Exposure time: 24 h

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Acute dermal toxicity : LD 50 (Rabbit, male and female): > 2,000 mg/kg
Assessment: No adverse effect has been observed in acute dermal toxicity tests.

XYLENE:

Acute oral toxicity : LD 50 (Rat): 3,523 - 8,600 mg/kg

Acute inhalation toxicity : LC 50 (Rat): 6700 ppm
Exposure time: 4 h
Test atmosphere: vapour

Assessment: The component/mixture is classified as acute inhalation toxicity, category 4.

Acute dermal toxicity : LD 50 (Rabbit): 1,700 mg/kg

SEVERELY SOLVENT REFINED HEAVY PARAFFINIC PETROLEUM OIL:

Acute oral toxicity : LD 50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5.58 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Assessment: Not classified as acutely toxic by inhalation under GHS.
Remarks: No mortality observed at this dose.

Acute dermal toxicity : LD 50 (Rabbit): > 5,000 mg/kg
Remarks: No mortality observed at this dose.

SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC:

Acute oral toxicity : LD 50 (Rat): > 8,000 mg/kg

Acute inhalation toxicity : LC 50 (Rat): > 7,630 mg/m3
Exposure time: 4 h
Test atmosphere: vapour
Method: OECD Test Guideline 403
Assessment: No adverse effect has been observed in acute inhalation toxicity tests.

Acute dermal toxicity : LD 50 (Rat): > 4,000 mg/kg
Assessment: Not classified as acutely toxic by dermal absorption under GHS.

METHYL-3-PENTANE:

Acute oral toxicity : LD50 (Rat): 16,000 mg/kg
Remarks: Information given is based on data obtained from similar substances.

Acute inhalation toxicity : LC50 (Rat): 73680 ppm
Exposure time: 4 h
Test atmosphere: vapour
Remarks: Information given is based on data obtained from similar substances.

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Acute dermal toxicity : LD50 (Rabbit): 3,350 mg/kg
 Assessment: No adverse effect has been observed in acute dermal toxicity tests.
 Remarks: Information given is based on data obtained from similar substances.

METHYLCYCLOPENTANE:

Acute oral toxicity : LD 50 (Rat): > 2,000 mg/kg

ETHYL BENZENE:

Acute oral toxicity : LD 50 (Rat): ca. 3,500 mg/kg

Acute inhalation toxicity : LC50 (Rat): 4000 ppm
 Exposure time: 4 h
 Test atmosphere: vapour

Acute dermal toxicity : LD 50 (Rabbit): 17,800 mg/kg

CARBON BLACK:

Acute oral toxicity : LD 50 (Rat): > 10,000 mg/kg

Acute dermal toxicity : LD 50 (Rabbit): > 3 g/kg

Skin corrosion/irritation

Causes skin irritation.

Product:

Result: Repeated exposure may cause skin dryness or cracking.

Remarks: May cause skin irritation and/or dermatitis.

Components:

TOLUENE:

Result: Irritating to skin

N-HEXANE:

Result: Irritating to skin

XYLENE:

Result: Irritating to skin

SEVERELY SOLVENT REFINED HEAVY PARAFFINIC PETROLEUM OIL:

Species: Rabbit

Result: Not irritating to skin

SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC:

Result: Mildly irritating to skin

Result: Repeated exposure may cause skin dryness or cracking.

METHYL-3-PENTANE:

Result: Slightly to moderately irritating to skin

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METHYLCYCLOPENTANE:

Result: Irritating to skin

Result: Repeated exposure may cause skin dryness or cracking.

ETHYL BENZENE:

Result: Irritating to skin

CARBON BLACK:

Result: Not irritating to skin

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin., Causes serious eye irritation.

Components:

TOLUENE:

Result: Irritating to eyes

N-HEXANE:

Result: Slightly irritating to eyes

XYLENE:

Result: Irritating to eyes

SEVERELY SOLVENT REFINED HEAVY PARAFFINIC PETROLEUM OIL:

Species: Rabbit

Result: Not irritating to eyes

SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC:

Result: Mildly irritating to eyes

METHYL-3-PENTANE:

Result: Irritating to eyes

METHYLCYCLOPENTANE:

Result: Irritating to eyes

ETHYL BENZENE:

Result: Irritating to eyes

Remarks: Exposure to a concentration of 5000 ppm causes intolerable irritation of the eyes

CARBON BLACK:

Result: Slightly irritating to eyes

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Components:

SEVERELY SOLVENT REFINED HEAVY PARAFFINIC PETROLEUM OIL:

Test Type: Buehler Test

Species: Guinea pig

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Assessment: Does not cause skin sensitisation.

METHYL-3-PENTANE:

Result: Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity

Not classified based on available information.

Components:

METHYLCYCLOPENTANE:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Result: negative

Carcinogenicity

Suspected of causing cancer if inhaled.

Components:

CARBON BLACK:

Carcinogenicity - : Limited evidence of carcinogenicity in inhalation studies with
Assessment animals.

Reproductive toxicity

Suspected of damaging fertility or the unborn child.

Components:

TOLUENE:

Reproductive toxicity - : Some evidence of adverse effects on development, based on
Assessment animal experiments.

N-HEXANE:

Reproductive toxicity - : Suspected of damaging fertility., Some evidence of adverse
Assessment effects on sexual function and fertility, based on animal
experiments.

STOT - single exposure

May cause drowsiness or dizziness.

Components:

TOLUENE:

Exposure routes: Inhalation

Target Organs: Central nervous system

Assessment: May cause drowsiness or dizziness.

N-HEXANE:

Target Organs: Central nervous system

Assessment: May cause drowsiness or dizziness.

XYLENE:

Assessment: May cause respiratory irritation., May cause drowsiness or dizziness.

SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC:

Exposure routes: Inhalation

Target Organs: Central nervous system

Assessment: May cause drowsiness or dizziness.

METHYL-3-PENTANE:

Target Organs: Central nervous system

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Assessment: May cause drowsiness or dizziness.

METHYLCYCLOPENTANE:

Target Organs: Respiratory Tract, Central nervous system

Assessment: May cause respiratory irritation., May cause drowsiness or dizziness.

STOT - repeated exposure

Causes damage to organs (Nervous system, Neurologic: other (neuropsychological effects, auditory dysfunction and effects on colour vision)) through prolonged or repeated exposure if inhaled.

May cause damage to organs (Auditory system) through prolonged or repeated exposure.

Components:

TOLUENE:

Exposure routes: Inhalation

Target Organs: Neurologic: other (neuropsychological effects, auditory dysfunction and effects on colour vision)

Assessment: May cause damage to organs through prolonged or repeated exposure.

N-HEXANE:

Exposure routes: Inhalation

Target Organs: Nervous system

Assessment: Causes damage to organs through prolonged or repeated exposure.

ETHYL BENZENE:

Target Organs: Auditory system

Assessment: May cause damage to organs through prolonged or repeated exposure.

Aspiration toxicity

Not classified based on available information.

Product:

No aspiration toxicity classification

Components:

TOLUENE:

May be fatal if swallowed and enters airways.

N-HEXANE:

May be fatal if swallowed and enters airways.

XYLENE:

May be fatal if swallowed and enters airways.

SEVERELY SOLVENT REFINED HEAVY PARAFFINIC PETROLEUM OIL:

No aspiration toxicity classification

SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC:

May be fatal if swallowed and enters airways.

METHYL-3-PENTANE:

May be fatal if swallowed and enters airways.

METHYLCYCLOPENTANE:

May be fatal if swallowed and enters airways.

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ETHYL BENZENE:
May be fatal if swallowed and enters airways.

Further information

Product:

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting., Concentrations substantially above the TLV value may cause narcotic effects., Solvents may degrease the skin.

Components:

ETHYL BENZENE:

Remarks: Central nervous system

Carcinogenicity:

IARC

Group 2B: Possibly carcinogenic to humans

ETHYL BENZENE 100-41-4

CARBON BLACK 1333-86-4

TALC 14807-96-6

OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Ecotoxicology Assessment

Acute aquatic toxicity : Acute aquatic toxicity Category 2; Toxic to aquatic life.

Chronic aquatic toxicity : Chronic aquatic toxicity Category 3; Harmful to aquatic life with long lasting effects.

Components:

TOLUENE:

Toxicity to fish : LC50 (Oncorhynchus kisutch (coho salmon)): 5.5 mg/l
Exposure time: 96 h
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Water flea (Ceriodaphnia dubia)): 3.78 mg/l
Exposure time: 48 h
Remarks: Mortality

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Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (microalgae)): > 433 mg/l
End point: Growth inhibition
Exposure time: 96 h

NOEC (Scenedesmus quadricauda (Green algae)): > 400 mg/l
End point: Growth inhibition
Exposure time: 7 d

Toxicity to fish (Chronic toxicity) : NOEC (Oncorhynchus mykiss (rainbow trout)): 1.39 mg/l
Exposure time: 40 d
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Water flea (Ceriodaphnia dubia)): 0.74 mg/l
Exposure time: 7 d

N-HEXANE:

Toxicity to algae : EL50 (Pseudokirchneriella subcapitata (green algae)): 9.29 mg/l
Exposure time: 72 h

Ecotoxicology Assessment Acute aquatic toxicity

: Toxic to aquatic life.

Chronic aquatic toxicity

: Toxic to aquatic life with long lasting effects.

XYLENE:

Toxicity to fish : LC 50 (Fathead minnow (Pimephales promelas)): 23.53 - 29.97 mg/l
Exposure time: 96 h
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : LC 50 (Water flea (Daphnia magna)): > 100 - < 1,000 mg/l
Exposure time: 24 h
Test Type: static test

SEVERELY SOLVENT REFINED HEAVY PARAFFINIC PETROLEUM OIL:

Toxicity to fish : LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l
Exposure time: 96 h
Test Type: static test
Test substance: WAF
Method: OECD Test Guideline 203
Remarks: No toxicity at the limit of solubility

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 10,000 mg/l
Exposure time: 48 h
Test Type: static test
Test substance: WAF
Method: OECD Test Guideline 202

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Toxicity to algae : NOEL (Pseudokirchneriella subcapitata (green algae)): >= 100 mg/l
 End point: Growth inhibition
 Exposure time: 72 h
 Test Type: static test
 Test substance: WAF
 Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : NOELR (Oncorhynchus mykiss (rainbow trout)): Calculated >= 1,000 mg/l
 Exposure time: 14 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEL (Daphnia (water flea)): 10 mg/l
 Exposure time: 21 d
 Test substance: WAF
 Method: OECD Test Guideline 211

METHYL-3-PENTANE:
 Ecotoxicology Assessment
 Acute aquatic toxicity

: Toxic to aquatic life.

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

ETHYL BENZENE:

Toxicity to fish : LC 50 (Fathead minnow (Pimephales promelas)): 9.1 - 15.6 mg/l
 Exposure time: 96 h
 Test Type: static test

LC 50 (Rainbow trout,donaldson trout (Oncorhynchus mykiss)): 4.2 mg/l
 Exposure time: 96 h
 Test Type: Renewal

Toxicity to daphnia and other aquatic invertebrates : EC 50 (Water flea (Daphnia magna)): 1.37 - 4.4 mg/l
 Exposure time: 48 h
 Test Type: static test

Toxicity to algae : (Pseudokirchneriella subcapitata (green algae)): 3.6 mg/l
 End point: EC 50
 Exposure time: 96 h
 Test Type: Growth inhibition

Persistence and degradability

Components:

TOLUENE:

Biodegradability : Result: Readily biodegradable

N-HEXANE:

Biodegradability : Remarks: Expected to be biodegradable

XYLENE:

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Physico-chemical : Remarks: The product evaporates readily.
removability

SEVERELY SOLVENT REFINED HEAVY PARAFFINIC PETROLEUM OIL:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 2 - 4 %
Exposure time: 28 d
Method: OECD Test Guideline 301B

ETHYL BENZENE:

Biodegradability : Result: Readily biodegradable
Biodegradation: 70 - 80 %
Exposure time: 28 d

Bioaccumulative potential

Components:

TOLUENE:

Bioaccumulation : Species: Ide, silver or golden orfe (Leuciscus idus)
Bioconcentration factor (BCF): 94
Exposure time: 3 d
Concentration: 0.05 mg/l
Method: Not reported

Partition coefficient: n- : log Pow: 2.73
octanol/water

N-HEXANE:

Partition coefficient: n- : log Pow: 3.90
octanol/water

XYLENE:

Partition coefficient: n- : log Pow: 3.16
octanol/water

METHYL-3-PENTANE:

Partition coefficient: n- : log Pow: 3.60
octanol/water

METHYLCYCLOPENTANE:

Partition coefficient: n- : log Pow: 3.37
octanol/water

ETHYL BENZENE:

Partition coefficient: n- : log Pow: 3.15
octanol/water

Mobility in soil

Components:

No data available

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Other adverse effects

No data available

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Toxic to aquatic life., Harmful to aquatic life with long lasting effects.

Components:

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

General advice : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Dispose of in accordance with all applicable local, state and federal regulations.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION

International transport regulations

REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.
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MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

UN	1133	Adhesives	3	II	LIMITED QUANTITY
----	------	-----------	---	----	------------------

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

UN	1133	Adhesives	3	II	LIMITED QUANTITY
----	------	-----------	---	----	------------------

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

UN	1133	Adhesives	3	II	LIMITED QUANTITY
----	------	-----------	---	----	------------------

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INTERNATIONAL MARITIME DANGEROUS GOODS

UN	1133	ADHESIVES	3	II	LIMITED QUANTITY

TRANSPORT CANADA - INLAND WATERWAYS

UN	1133	ADHESIVES	3	II	LIMITED QUANTITY

TRANSPORT CANADA - RAIL

UN	1133	ADHESIVES	3	II	LIMITED QUANTITY

TRANSPORT CANADA - ROAD

UN	1133	ADHESIVES	3	II	MARINE POLLUTANT:(NORMAL- HEXANE)LIMI TED QUANTITY

U.S. DOT - INLAND WATERWAYS

UN	1133	Adhesives	3	II	

U.S. DOT - RAIL

UN	1133	Adhesives	3	II	

U.S. DOT - ROAD

UN	1133	ADHESIVOS	3	II	

*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Marine pollutant	no
------------------	----

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

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Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
TOLUENE	108-88-3	1000	1798.900872

SARA 311/312 Hazards : Chronic Health Hazard
Acute Health Hazard
Fire Hazard

SARA 313 Component(s)

TOLUENE	108-88-3	55.58 %
N-HEXANE	110-54-3	16.17 %
XYLENE	1330-20-7	5.02 %
ETHYL BENZENE	100-41-4	1.54 %

California Prop 65

WARNING! This product contains a chemical known to the State of California to cause cancer.

ETHYL BENZENE	100-41-4
CARBON BLACK	1333-86-4
BENZENE	71-43-2
NAPHTHALENE	91-20-3

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

TOLUENE	108-88-3
BENZENE	71-43-2

The components of this product are reported in the following inventories:

TSCA : On TSCA Inventory

DSL : This product contains one or several components that are not on the Canadian DSL and have annual quantity limits.

AICS : Not in compliance with the inventory

ENCS : Not in compliance with the inventory

KECI : Not in compliance with the inventory

PICCS : Not in compliance with the inventory

IECSC : Not in compliance with the inventory

Inventories

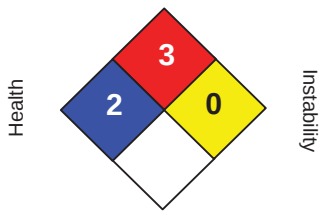
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AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

SECTION 16. OTHER INFORMATION

Further information

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NFPA:	HMIS III:						
Flammability  Health Instability Special hazard.	<table border="1"> <tr> <td>HEALTH</td><td>2*</td></tr> <tr> <td>FLAMMABILITY</td><td>3</td></tr> <tr> <td>PHYSICAL HAZARD</td><td>0</td></tr> </table> 0 = not significant, 1 = Slight, 2 = Moderate, 3 = High 4 = Extreme, * = Chronic	HEALTH	2*	FLAMMABILITY	3	PHYSICAL HAZARD	0
HEALTH	2*						
FLAMMABILITY	3						
PHYSICAL HAZARD	0						

NFPA Flammable and Combustible Liquids Classification

Flammable Liquid Class IB

Full text of H-Statements referred to under sections 2 and 3.

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H225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
H303	May be harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H316	Causes mild skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H333	May be harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer if inhaled.
H361	Suspected of damaging fertility or the unborn child.
H361d	Suspected of damaging the unborn child.
H361f	Suspected of damaging fertility.
H372	Causes damage to organs through prolonged or repeated exposure if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure if inhaled.
H401	Toxic to aquatic life.
H402	Harmful to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Further information

Sources of key data used to compile the Safety Data Sheet

Ashland internal data including own and sponsored test reports

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ACGIH : American Conference of Industrial Hygienists

BEI : Biological Exposure Index

CAS : Chemical Abstracts Service (Division of the American Chemical Society).

CMR : Carcinogenic, Mutagenic or Toxic for Reproduction

FG : Food grade

GHS : Globally Harmonized System of Classification and Labeling of Chemicals.

H-statement : Hazard Statement

IATA : International Air Transport Association.

IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO : International Civil Aviation Organization

ICAO-TI (ICAO) : Technical Instructions by the "International Civil Aviation Organization"

IMDG : International Maritime Code for Dangerous Goods

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ISO : International Organization for Standardization
 logPow : octanol-water partition coefficient
 LCxx : Lethal Concentration, for xx percent of test population
 LDxx : Lethal Dose, for xx percent of test population.
 ICxx : Inhibitory Concentration for xx of a substance
 Ecxx : Effective Concentration of xx
 N.O.S.: Not Otherwise Specified
 OECD : Organization for Economic Co-operation and Development
 OEL : Occupational Exposure Limit
 P-Statement : Precautionary Statement
 PBT : Persistent , Bioaccumulative and Toxic
 PPE : Personal Protective Equipment
 STEL : Short-term exposure limit
 STOT : Specific Target Organ Toxicity
 TLV : Threshold Limit Value
 TWA : Time-weighted average
 vPvB : Very Persistent and Very Bioaccumulative
 WEL : Workplace Exposure Level

CERCLA : Comprehensive Environmental Response, Compensation, and Liability Act
 DOT : Department of Transportation
 FIFRA : Federal Insecticide, Fungicide, and Rodenticide Act
 HMIRC : Hazardous Materials Information Review Commission
 HMIS : Hazardous Materials Identification System
 NFPA : National Fire Protection Association
 NIOSH : National Institute for Occupational Safety and Health
 OSHA : Occupational Safety and Health Administration
 PMRA : Health Canada Pest Management Regulatory Agency
 RTK : Right to Know
 WHMIS : Workplace Hazardous Materials Information System



77 Westport Plaza
Suite 250
St. Louis, MO 63146

TRANSMITTAL

No. 15051-0373

Paric Corporation

PROJECT: 15051-Webster University Interdisciplinary Science Building

DATE: 12/06/2016

TO: Cannon Design
1100 Clark Ave
St Louis MO 63102

Fax;
314-241-2203

RE: Green Roof Materials Product Data

ATTN: Kelvin Patel

JOB: 15051

WE ARE SENDING:	SUBMITTED FOR:	ACTION TAKEN:
☐ Shop Drawings	☒ Approval	☐ Approved as Submitted
☐ Letter	☐ Your Use	☐ Approved as Noted
☐ Prints	☐ As Requested	☐ Returned After Loan
☐ Change Order	☐ Review and Comment	☐ Resubmit
☐ Plans		☐ Submit
☐ Samples	SENT VIA:	☐ Returned
☐ Specifications	☐ Attached	☐ Returned for Corrections
☒ Other: Product Data	☐ Separate Cover Via:	☐ Due Date:

Item	Package	Code	Rev.	Copies	Date	Description	Status
Submittal		071413-008	1		12/06/2016	Green Roof Materials Product Data	Submitted

NOTES:

CC:

Signed: _____
Devin Gates