

## Identification of Substance & Company

#### **Product**

Product nameTanking Mastic (P&S)Other namesCarlisle CCW-704Product codeSES014HSNO approvalHSR002669

Approval description Surface Coatings and Colourants (Flammable, Carcinogenic) Group

Standard 2020

UN number 1993 DG class 3

Proper Shipping Name FLAMMABLE LIQUID, N.O.S.

Packaging group III Hazchem code 3Y

Uses Solvent-based rubberized bitumen mastic

#### **Company Details**

Company Viking Roofspec

Physical Address80 Alexander Crescent<br/>OtaraPO Box 14 451<br/>PanmureAucklandAuckland 1741

New Zealand New Zealand 0800 729 799

 Telephone
 0800 729 799

 Fax
 0800 729 788

Website www.vikingroofspec.co.nz

## **Emergency Telephone Number: 0800 764 766**

### 2. Hazard Identification

#### **NZ** Approval

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002669, Surface Coatings and Colourants (Flammable, Carcinogenic) Group Standard 2020). The substance has been classified as hazardous according to the criteria in the Hazardous Substances (Hazard Classification) Notice 2020.

### **GHS 7 Classes**

### **Hazard Statements**

Flammable liquid category 3 STOT\* single exposure category 3 Skin irritant category 2 Eye irritant category 2 Reproductive toxicity category 2

STOT\* repeated exposure category 2

Chronic aquatic category 2

H335 - May cause respiratory irritation. H315 - Causes skin irritation. H319 - Causes serious eye irritation.

H226 - Flammable liquid and vapour.

H361 - Suspected of damaging fertility or the unborn child.

H373 - May cause damage to organs through prolonged or repeated exposure.

H411 - Toxic to aquatic life with long lasting effects.

\*STOT - System target organ toxicity

## **SYMBOLS**

# WARNING



#### **Other Classifications**

There are no other classifications that are known to apply.



#### **Precautionary Statements**

**Prevention** P103 - Read label before use.

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P210 - Keep away from ignition sources. No smoking.

P233 - Keep container tightly closed.

P240 - Ground/bond container and receiving equipment. P241 - Use explosion-proof electrical equipment.

P242 - Use only non-sparking tools.

P243 - Take precautionary measures against static discharge.

P260 - Do not breathe vapours.

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray\*.

P264 - Wash hands thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area.

P273 - Avoid release to the environment.

P280 - Wear protective gloves/protective clothing/eye protection/face protection\*.

P281 - Use personal protective equipment as required.

Response P304+P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

P312 - Call a POISON CENTRE or doctor/physician if you feel unwell. P302+P352 - IF ON SKIN: Wash with plenty of soap and water. P332+P313 - If skin irritation occurs: Get medical advice/ attention. P362 - Take off contaminated clothing and wash before re-use.

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/attention. P308+P313 - IF exposed or concerned: Get medical advice/ attention.

P391 - Collect spillage.

Storage P403+P235 - Store in a well-ventilated place. Keep cool.

P405 - Store locked up.

**Disposal** P501 - Dispose of contents/container in accordance with local/regional/national/international regulation.

#### **Composition / Information on Ingredients** Component CAS/ Identification Conc (%) asphalt 8052-42-4 0-45% Bitumen emulsion 64742-93-4 0-45% Distillates, petroleum, petroleum residues vacuum 68955-27-1 0-45% Solvent naphtha (petroleum), light aromatic 64742-95-6 10-30% Cumene 98-82-8 0.1-1% 1,2,4-trimethylbenzene 95-63-6 3-7% Xylene 1330-20-7 0.1-1% Limestone 1317-65-3 10-30% Crystalline Silica 14808-60-7 0.1-1% Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl, 68953-58-2 5-10% salts with bentonite

This is a commercial product whose exact ratio of components may vary. Trace quantities of impurities are also likely.

#### 4. First Aid

#### **General Information**

If medical advice is needed, have product container or label at hand. You should call the National Poisons Centre if you feel that you may have been harmed or irritated by this product. The number is 0800 764 766 (0800 POISON) (24 hr emergency service).

Recommended first aid

Ready access to running water is required. Accessible eyewash is required.

facilities



Taking care of detail

# Carlisle CCW-704 Safety Data Sheet

**Exposure** 

**Swallowed** Do NOT induce vomiting. Give a glass of water to drink. Contact a doctor if

experiencing symptoms.

Eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

Skin contact IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical

advice/ attention. Take off contaminated clothing and wash before re-use. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for

Inhaled

IF INHALED: Remove to fresh air and keep at rest in a position comfortable breathing. Call a POISON CENTRE or doctor/physician if you feel unwell.

**Advice to Doctor** 

Treat symptomatically

5. Firefighting Measures

Fire and explosion hazards: Vapours may form an explosive mixture in air which can be ignited by many sources such

as pilot lights, open flames, electrical motors, switches and static electricity.

Suitable extinguishing

substances:

Unsuitable extinguishing

substances:

Unknown.

**Products of combustion:** Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Water.

May form toxic mixtures in air and may accumulate in sumps, pits and other low-lying

spaces, forming potentially explosive mixtures.

Carbon dioxide, extinguishing powder, foam.

Protective equipment: Self-contained breathing apparatus. Safety boots, non-flammable overalls, gloves, hat

and eye protection.

Hazchem code: 3Y

6. Accidental Release Measures

**Containment** If greater than 1000L is stored, secondary containment and emergency plans to manage

any potential spills must be in place. In all cases design storage to prevent discharge to

storm water.

Emergency procedures In the event of spillage alert the fire brigade to location and give brief description of

hazard.

Stop the source of the leak, if safe to do so. Shut off all possible sources of ignition. Wear protective equipment to prevent skin, eye and respiratory exposure. Clear area of any unprotected personnel. Contain using sand, earth or vermiculite. Do not use sawdust.

Prevent by whatever means possible any spillage from entering drains, sewers, or water courses. (If this occurs contact your regional council immediately).

clean-up of spills, as they may create fire or environmental hazard. Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or

waterways has occurred advise local emergency services.

**Disposal** Mop up and collect recoverable material into labelled containers for recycling or salvage.

Recycle containers wherever possible. This material may be suitable for approved

landfill. Dispose of only in accord with all regulations.

**Precautions**Wear protective equipment to prevent skin and eye contamination and the inhalation of

vapours. Work up wind or increase ventilation.

7. Storage & Handling

**Storage** Avoid storage of harmful substances with food. Store out of reach of children.

Containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames. Avoid contact with incompatible substances as listed in Section 10. Location compliance certificates must be available if storing >1500L (containers >5L), 500L (containers ≤5L), 250L (in use). Containers (and outer

packaging) must bear the prescribed labelling, including the Hazchem code, UN number,

flammability warning and name of contents.

**Handling** Keep exposure to a minimum, and minimise the quantities kept in work areas. See

section 8 with regard to personal protective equipment requirements. Avoid skin and eye

contact and inhalation of vapour, mist or aerosols.



#### 8. Exposure Controls / Personal Protective Equipment

#### **Workplace Exposure Standards**

A workplace exposure standard (WES) has not been established by WorkSafe NZ for this product. There is a general limit of 3mg/m³ for respirable particulates and 10mg/m³ for inhalable particulates when limits have not otherwise been established.

NZ Workplace Ingredient WES-TWA\* WES-STEL

Exposure Stds asphalt 5mg/m³
Solvent naphtha (petroleum), light aromatic 100ppm, 525mg/m³

(Stoddard solvent)

Cumene (skin) 25ppm, 125mg/m³ 75ppm, 375mg/m³ 25ppm, 123mg/m³

 1,2,4-trimethylbenzene
 25ppm, 123mg/m³

 Xylene
 50ppm, 217mg/m³

 Limestone
 10mg/m³

 Crystalline Silica (carc cat 1)
 0.05mg/m³

#### **Engineering Controls**

In industrial situations, it is expected that employee exposure to hazardous substances will be controlled to a level as far below the WES as practicable by applying the hierarchy of control required by the Health and Safety at Work Act (2015) and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016. Exposure can be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify processes or increase ventilation.

#### **Personal Protective Equipment**

#### General

Personal Protective Equipment (PPE) should not be used as the primary means of exposure protection, except in the event of an accident or emergency situation or where all other means of protection have proven to inadequate. Clean PPE after use or dispose of as appropriate. Store PPE for re-use in a clean place. Regular training on the correct use of PPE should be provided. In particular the correct fitting and use of respirators and where applicable the cleaning of respirators should be undertaken.

Eyes



Avoid contact with eyes. Use safety glasses and or chemical splash goggles if splashes are possible. Select eye protection in accordance with AS/NZS 1337.

Skin



Protective gloves are recommended. Nitrile gloves are recommended. Protective gloves or suitably resistant material must comply with AS 2161. Replace frequently. Gloves should be checked for tears or holes before use. Protective clothing must comply with AS 2919, AS3765.1 or AS3765.2. PVC or rubber boots must comply with AS/NZS 2210.2 and selected and maintained in accordance with AS/NS2210.1.

Respiratory



A respirator when airborne concentrations approach the WES (section 8). Respirators must have filters appropriate to the duty and comply with AS/NZS1716 and selected, used and maintained in accordance with AS/NS 1715. Use an respirator with an organic vapour cartridge. If using a respirator, ensure that the cartridges are correct for the potential air contamination and are in good working order. Fit testing and clear guidelines and training for use and maintenance of PPE are necessary.

#### **WES Additional Information**

Not applicable

#### 9. Physical & Chemical Properties

Appearance black paste Odour petroleum odour

**Odour Threshold** no data pН no data Freezing/melting point no data **Boiling Point** no data **Flashpoint** no data **Flammability** no data **Upper & lower flammable limits** no data Vapour pressure 3mmHg



Vapour density no data Specific gravity/density no data

Solubility negligible in water

Partition coefficient no data Auto-ignition temperature no data **Decomposition temperature** no data Viscosity no data **Particle Characteristics** no data

#### 10. **Stability & Reactivity**

Stability Stable

Conditions to be avoided Flammable substance. Keep away from sources of ignition at all times. Containers should

be kept closed in order to avoid contamination.

Incompatible groups **Substance Specific** 

Incompatibility

Hazardous decomposition

products

**Hazardous reactions** 

Oxides of carbon, hydrocarbons

Strong oxidiser

none known

none known

#### **Toxicological Information** 11.

#### **Summary**

IF SWALLOWED: large amounts may cause gastrointestinal irritation. IF IN EYES: May cause mild eye irritation. IF ON SKIN: Causes skin irritation.

IF INHALED: May cause respiratory irritation. May cause drowsiness or dizziness. CHRONIC TOXICITY:

### **Supporting Data**

Acute Using LD<sub>50</sub>'s for ingredients, the calculated LD<sub>50</sub> (oral, rat) for the mixture is >5,000 Oral

mg/kg. Data considered includes: Bitumen emulsion >5000mg/kg. Distillates, petroleum. petroleum residues vacuum 4320mg/kg (rat), Solvent naphtha (petroleum), light aromatic >15000mg/kg (rat), Cumene 1400 mg/kg bw (rat), 1,2,4-trimethylbenzene 3280 mg/kg (rat), Xylene 1590 mg/kg (mouse), Limestone >5000mg/kg, Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl, salts with bentonite >5000mg/kg.

**Aspiration** This mixture is not considered an aspiration hazard.

Using LD $_{50}$ 's for ingredients, the calculated LD $_{50}$  (dermal, rat) for the mixture is >5000 **Dermal** mg/kg. Data considered includes: Bitumen emulsion >2000mg/kg, Distillates, petroleum,

petroleum residues vacuum >2000mg/kg (rabbit), Solvent naphtha (petroleum), light aromatic >3160 mg/kg (rabbit), Cumene 3160 mg/kg bw (rabbit), 1,2,4-trimethylbenzene

data unavailable, Xylene >1700mg/kg, m-xylene: 3228 mg/kg/day (rabbits). Using LC50's for ingredients, the calculated LC50 (inhalation, rat) for the mixture is Inhaled

20mg/L. Data considered includes: Bitumen emulsion >94.4mg/m³, Solvent naphtha (petroleum), light aromatic >12mg/L (rat), Cumene 40 mg/l (rat), 1,2,4-trimethylbenzene 18mg/l (4h, rat), Xylene 27.6 mg/L (rat, vapour), Quaternary ammonium compounds,

bis(hydrogenated tallow alkyl)dimethyl, salts with bentonite >12.6mg/L (4h).

Eye The mixture is considered to be an eye irritant, because some of the ingredients present

are considered eve irritants in more concentrated form.

Skin The mixture is considered to be a skin irritant, because some of the ingredients present

are considered skin irritants in more concentrated form.

Chronic Sensitisation No ingredient present at concentrations > 0.1% is considered a sensitizer.

Mutagenicity No ingredient present at concentrations > 0.1% is considered a mutagen. Carcinogenicity No ingredient present at concentrations > 0.1% is considered a carcinogen. Reproductive / The mixture is considered to be a suspected reproductive or developmental toxicant,

Developmental because at least one of the ingredients (xylene) present in greater than 0.1% is

suspected to be a reproductive or developmental toxicant.

**Systemic** The mixture is considered to be a suspected target organ toxicant, because at least one

of the ingredients (xylene) present in greater than 1% is suspected to be a target organ toxicant. This mixture may affect the CNS if inhaled and cause dizziness and drowsiness.

Xylene may affect the liver, kidney and CNS.

Aggravation of

None known. existing conditions





12. Ecological Data

**Summary** 

This mixture may be toxic towards aquatic organisms with long lasting effects.

**Supporting Data** 

**Aquatic** Using EC₅₀'s for ingredients, the calculated EC₅₀ for the mixture is between 1 mg/L and

10 mg/L. Data considered includes: Distillates, petroleum, petroleum residues vacuum 48mg/L (96h, Brachydanio rerio), Solvent naphtha (petroleum), light aromatic 2200mg/L (96hr, fish), 2.6 mg/L (96hr, Crustacea), , Cumene 2.7 mg/l (96ht, Salmo gairdneri), 0.6 mg/l (48hr, Daphnia magna), 2.6 mg/l (72hr, algae), 1,2,4-trimethylbenzene 7.72mg/L (96hr, Pimephales promelas (fathead minnow)), 17mg/L (48hr, Cancer magister), , Xylene 8.5mg/l (48hr, Palaemonetes pugio (Crustacea)), 3.3 mg/l (96hr, Oncorhynchus

mykiss), 10mg/l (72hr, Skeletonema costatum ).

Bioaccumulation No data
Degradability No data

Soil No evidence of soil toxicity.

**Terrestrial vertebrate** This mixture is not considered toxic towards terrestrial vertebrates.

**Terrestrial invertebrate** No evidence of toxicity towards terrestrial invertebrates.

Biocidal no data

Environmental effect levels No EELs are available for this mixture or ingredients

13. Disposal Considerations

Restrictions There are no product-specific restrictions, however, local council and resource consent

conditions may apply, including requirements of trade waste consents.

Disposal method Disposal of this product must comply with the Hazardous Substances (Disposal) Notice

2017 and the requirements of the Resource Management Act for which approval should be sought from the Regional Authority. The substance must be treated and therefore

rendered non-hazardous before discharge to the environment.

**Contaminated packaging** Disposal of contaminated packaging must comply with the Hazardous Substances

(Disposal) Notice 2017 clause 12. Ensure that the package is rendered incapable of containing any substance and is disposed in a manner that is consistent with the requirements of the substance it contained and the material of the package. If possible

reuse or recycle packaging.

14. Transport Information

Land Transport Rule: Dangerous Goods 2005 - NZS 5433:2007

Transport according to NZS 5433 (Transport of Hazardous Substances on Land). Considered a dangerous good for transport.

UN number: 1993 Proper shipping name: FLAMMABLE LIQUID, N.O.S.

Class(es) NA Packing group: III
Precautions: Flammable liquid Hazchem code: 3Y

Marine Pollutant

**IMDG** 

UN number: 1993 Proper shipping name: FLAMMABLE LIQUID, N.O.S.

Class(es) NA Packing group: III
Precautions: Flammable liquid EmS F-E, S-E

Marine Pollutant

Marine Pollutant

IATA

**UN number:** 1993 **Proper shipping name:** FLAMMABLE LIQUID, N.O.S.

Class(es) NA Packing group: III
Precautions: Flammable liquid



#### 15. **Regulatory Information**

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR002669, Surface Coatings and Colourants (Flammable, Carcinogenic) Group Standard 2020. All ingredients are listed on the NZIoC.

#### **Specific Controls**

Key workplace requirements are:

SDS To be available within 10 minutes in workplaces storing any quantity.

Inventory An inventory of all hazardous substances must be prepared and maintained. Packaging All hazardous substances should be appropriately packaged including substances

that have been decanted, transferred or manufactured for own use or have been

supplied

Must comply with the Hazardous Substances (Labelling) Notice 2017. Labelling

Emergency plan Required if > 1000L is stored.

Certified handler Not required. Tracking Not required.

Bunding & secondary containment Required if > 1000L is stored.

Signage Required if > 1000L is stored in any one location.

Required if > 1500L (containers >5L), 500L (containers ≤5L), 250L (in use) is stored in Location compliance certificate

any one location.

Flammable zone Must be established if > 100L (closed containers), 25L (decanting), 5L (open

occasionally), 1L (in use), stored in any one location is stored in any one location.

Fire extinguisher If > 500L present.

Note: The above workplace requirements apply if only this particular substance is present. The complete set of controls for a

location will depend on the classification and total quantities of other substances present in that location.

#### Other Legislation

In New Zealand, the use of this product may come under the Resource Management Act and Regulations, the Health and Safety at Work Act 2015 and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016, local Council Rules and Regional Council Plans.

#### 16. **Other Information**

#### **Abbreviations**

Approval HSR002669, Surface Coatings and Colourants (Flammable, Carcinogenic) **Approval Code** 

Group Standard 2020 Controls, EPA. www.epa.govt.nz

**CAS Number** Unique Chemical Abstracts Service Registry Number

EC<sub>50</sub> Ecotoxic Concentration 50% - concentration in water which is fatal to 50% of a test

population (e.g. daphnia, fish species)

Environmental Protection Authority (New Zealand) **EPA** 

Globally Harmonised System of Classification and Labelling of Chemicals, 7th revised GHS

edition, 2017, published by the United Nations.

**HAZCHEM Code** Emergency action code of numbers and letters that provide information to emergency

services, especially fire fighters

**HSNO** Hazardous Substances and New Organisms (Act and Regulations) **IARC** 

International Agency for Research on Cancer

LEL Lower Explosive Limit

 $LD_{50}$ Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats).

LC50 Lethal Concentration 50% - concentration in air which is fatal to 50% of a test population

(usually rats)

**NZIoC** New Zealand Inventory of Chemicals

STEL Short Term Exposure Limit - The maximum airborne concentration of a chemical or

biological agent to which a worker may be exposed in any 15 minute period, provided the

TWA is not exceeded

STOT RE System Target Organ Toxicity - Repeated Exposure System Target Organ Toxicity - Single Exposure STOT SE

**TWA** Time Weighted Average – generally referred to WES averaged over typical work day

(usually 8 hours)

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UEL Upper Explosive Limit
UN Number United Nations Number

WES Workplace Exposure Standard - The airborne concentration of a biological or chemical

agent to which a worker may be exposed during work hours (usually 8 hours, 5 days a week). The WES relates to exposure that has been measured by personal monitoring

using procedures that gather air samples in the worker's breathing zone.

References

Unless otherwise stated comes from the EPA HSNO chemical classification information

database (CCID).

Controls EPA notices, www.epa.govt.nz, Health and Safety at Work (Hazardous Substances)

Regulations 2017, www.legislation.govt.nz

WES The latest NZ Workplace Exposure Standards, published by WorkSafe NZ and available

on their web site - www.worksafe.govt.nz.

Other References: Suppliers SDS, EU ECHA, ingredients SDS's, ChemIDplus

**Review** 

DateReason for reviewAugust 2018Not applicable – new SDSMay 20235 yearly update, HSNO to GHS 7

#### **Disclaimer**

This SDS was prepared by Datachem LTD and is based on our current state of knowledge, including information obtained from suppliers. The SDS is given in good faith and constitutes a guideline (not a guarantee of safety). The level of risk each substance poses is relevant to its properties (as summarised in the SDS) AND HOW THE SUBSTANCE IS USED. While guidelines are given for personal protective equipment, such precautions must be relevant to the use. The likely GHS 7 classifications for this SDS have been estimated based on general information from the supplier (e.g., hazard, toxicological). This SDS is copyright Datachem and must not be copied, edited or used for other than intended purpose. To contact the SDS author, email info@datachem.co.nz or phone: +64 21 1040951.

