

# SAFETY DATA SHEET

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## Section 1. Identification of the material and the supplier.

Product: TS2104-12S  
Product use: Urethane conformal coating  
Restriction of Use: Refer to Section 15.

New Zealand Supplier: Baskiville.com Ltd  
Address: 16 Methven Chertsey Road  
Methven  
Telephone: +64 3 302 8703  
Fax Number: +64 3 302 8706

**Emergency Telephone: 0800 764 766 (National Poison Centre)  
0274768214**

Date of SDS Preparation: 19 December 2016

## Section 2. Hazards Identification

**This substance is hazardous according to the HSNO (Minimum degrees of Hazard) Regulations 2001**

**EPA Approval No:** Aerosols (Flammable, Toxic [6.7]) – HSR002517

### Pictograms



Flammable



Harmful



Health Hazard

Signal Word: Danger

<b>HSNO Classification</b>	<b>Hazard Code</b>	<b>Hazard Statement</b>	<b>GHS Category</b>
2.1.2A	H223	Flammable aerosol	Category 1
6.3A	H315	Causes skin irritation	Category 2
6.4A	H320	Causes eye irritation	Category 2
6.7B	H351	Suspected of causing cancer	Category 2
6.8B	H361	Suspected of causing damage to fertility or the unborn child	Category 1A
6.9B (repeated)	H373	May cause damage to the eye, blood system, kidneys, liver, central nervous system, liver, gastrointestinal tract, upper respiratory tract, skin and ears through prolonged or repeated inhalation or oral exposure.	Category 2
9.1D	H402	Harmful to aquatic life	Category 4
9.3C	H433	Harmful to terrestrial vertebrates	N/A

<b>Prevention Code</b>	<b>Prevention Statement</b>
P210	Keep away from sparks, open flames and other sources of ignition.
P211	Do not spray on an open flames or other ignition source
P251	Pressurised container, do not pierce or burn, even after use.
P260	Do not breathe mist, vapours or spray
P264	Wash exposed skin after handling
P273	Avoid release into the environment
P280	Wear protective gloves and suitable eye/face protection
P281	Use personal protective equipment as required

<b>Response Code</b>	<b>Response Statement</b>
P302 + P352	IF ON SKIN: wash with plenty of soap and water
P305 + P351 + P338	IF IN EYES: Rinse cautiously for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P314	Get medical attention if you feel unwell
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention
P362	Take off contaminated clothing and wash before reuse

<b>Storage Code</b>	<b>Storage Statement</b>
P405	Store locked up
P410 + P412	Protect from sunlight, Do not expose to temperatures exceeding 50°C

<b>Disposal Code</b>	<b>Disposal Statement</b>
P501	Dispose of by exporting from New Zealand as waste or by treating the substance so that it is no longer hazardous. *

\* For full details see Section 13 Disposal considerations, of this document or Section 7 (Disposal) of the Group Standard Approval. Aerosols (Flammable, Toxic [6.7]) – HSR002517

### Section 3. Composition / Information on Ingredients

Components	Wt.%	CAS Number
Norflurane	25 – 40	811-97-2
Propyl acetate	20 – 30	109-60-4
Tetrahydrofuran	15 – 20	109-99-9
Xylene	5 – 8	1330-20-7
Ethylbenzene	1 – 2	100-41-4

### Section 4. First Aid Measures

Routes of Exposure:

If in Eyes: Rinse cautiously for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If on Skin: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If irritation occurs, get medical advice/attention.

If Swallowed: DO NOT induce vomiting. Rinse mouth. Get medical advice/attention

If Inhaled: Move to fresh air, keep warm and at rest. Get medical advice/attention.

### Section 5. Fire Fighting Measures

<b>Hazard Type</b>	Flammable aerosol
<b>Hazards from combustion products</b>	Thermal decomposition may yield carbon oxides (CO, CO <sub>2</sub> ) and halogenated compounds.
<b>Suitable extinguishing media</b>	Use extinguishing media suitable for the surrounding materials.
<b>Precautions for fire-fighters and special protective clothing</b>	Use positive pressure, self contained breathing apparatus. Evacuate area. Move containers away from the fire if this can be done without risk. Use water spray to keep fire exposed containers cool. Aerosols may explode if in fire or heated, causing them to be propelled from the fire at high speed.
<b>HAZCHEM CODE</b>	2YE

## Section 6. Accidental Release Measures

Use personal protective equipment as detailed in Section 8. Observe safe handling practises as detailed in Section 7.

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, sewers and other water bodies.

**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 in accordance with the regulations stated in Section 13.

**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 in accordance with the regulations stated in Section 13. Contaminated absorbent material may pose the same hazard as the spilled product.

## Section 7. Handling and Storage

### Precautions for handling

- Avoid breathing gas, mist or vapours
- Store and use away from heat, sparks, open flame or any other source of ignition.
- Use explosion proof electrical equipment.
- Use only with adequate ventilation or an appropriate respirator.
- Use non-sparking tools
- Empty containers retain product residue and can be hazardous.
- Do not ingest.
- Do not pierce or burn, even after use.
- Do not get in eyes or on skin or clothing.
- Do not eat, drink or smoke while using this product.
- Protect from sunlight
- Do not expose to temperatures exceeding 50°C

### Precautions for storage:

- Store away from direct sunlight in a cool, well ventilated area.
- Do not expose to temperatures exceeding 50°C
- Eliminate all ignition sources.

## Section 8. Exposure Controls / Personal Protection

### Workplace Exposure Standards (provided for guidance only)

Substance	TWA	STEL
Norflurane	1000ppm	Not specified
Propyl acetate	200ppm 840mg/m <sup>3</sup>	250ppm 1040mg/m <sup>3</sup>
Tetrahydrofuran	200ppm 590mg/m <sup>3</sup>	250ppm 735mg/m <sup>3</sup>
Xylene	100ppm 435mg/m <sup>3</sup>	150ppm 655mg/m <sup>3</sup>
Ethylbenzene	100ppm 435mg/m <sup>3</sup>	125ppm 545mg/m <sup>3</sup>

Workplace Exposure Standard – Time Weighted Average (WES – TWA). The time-weighted average exposure standard is designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard - Short-Term Exposure Limit (WES – STEL). The 15-minute average exposure standard. Applies to any 15-minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time weighted average exposures apply.

### 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, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

### Personal Protection Equipment

<b>Eyes</b>	If there is any risk of liquid splashes, mist or dusts chemical splash goggles should be worn.
<b>Hands and Skin</b>	If there is any risk of skin contact suitable protective gloves and/or clothing should be used. Where there is a risk of ignition from static electricity, wear anti-static protective clothing.
<b>Respiratory</b>	Use an approved respirator if there is any risk of exposure limits being exceeded.
<b>General</b>	Emissions from ventilation or work process equipment should be checked to ensure they comply with all environmental protection legislation.

## Section 9. Physical and Chemical Properties

<b>Appearance</b>	
<b>Upper and Lower Flammable Limits</b>	Lower: 1% Upper: 7%
<b>Odour</b>	Aromatic
<b>Odour Threshold</b>	N/A
<b>Vapour pressure</b>	N/A
<b>Vapour density</b>	>1 (air = 1)
<b>pH</b>	N/A
<b>Relative Density</b>	0.93
<b>Boiling Point</b>	149°C
<b>Melting Point</b>	N/A

<b>Solubility</b>	N/A
<b>Flash Point</b>	27.2°C
<b>Auto-ignition</b>	N/A
<b>Partition coefficient</b>	N/A
<b>Volatility</b>	86% (w/w)
<b>Evaporation Rate</b>	N/A
<b>Decomposition temperature</b>	N/A

## Section 10. Stability and Reactivity

<b>Stability of Substance</b>	Stable under normal temperatures and pressures.
<b>Conditions to avoid</b>	Avoid all possible sources of ignition.
<b>Incompatible materials</b>	No specific data
<b>Hazardous Decomposition Products</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological Information

### Acute Effects

<b>Swallowed</b>	N/A
<b>Dermal</b>	N/A
<b>Inhalation</b>	N/A
<b>Eye</b>	Causes eye irritation
<b>Skin</b>	Causes skin irritation

### Chronic Effects

<b>Carcinogenicity</b>	Suspected of causing cancer
<b>Reproductive Toxicity</b>	Suspected of damaging fertility or the unborn child
<b>Germ Cell Mutagenicity</b>	N/A
<b>Aspiration</b>	N/A
<b>STOT/SE</b>	N/A
<b>STOT/RE</b>	May cause damage to the eye, blood system, kidneys, liver, central nervous system, liver, gastrointestinal tract, upper respiratory tract, skin and ears through prolonged or repeated inhalation or oral exposure.

## Section 12. Eco-toxicological Informational

This product is known to be hazardous to the environment

HSNO Classes 9.1D = Harmful to aquatic life

9.3C = Harmful to terrestrial vertebrate

<b>Persistence and Degradability</b>	N/A
<b>Bioaccumulation</b>	N/A
<b>Mobility in Soil</b>	N/A
<b>Other adverse effects</b>	N/A

**Propyl acetate** (CAS: 190-60-4)

96hr, LC<sub>50</sub>, Fish (*Pimephales promelas*) = 60mg/L

24hr, EC<sub>50</sub>, Crustacean (*Daphnia magna*) = 318mg/L

**Tetrahydrofuran** (CAS: 109-99-9)

LD<sub>50</sub>, Terrestrial vertebrate (*Rattus norvegicus*) = 1650mg/kg

**Xylene** (CAS: 1330-20-7)

48hr, LC<sub>50</sub>, Crustacean (*Palaemonetes pugio*) = 8.5mg/L

96hr, LC<sub>50</sub>, Fish (*Oncorhynchus mykiss*) = 3.3mg/L

72hr, LC<sub>50</sub>, Algal (*Skeletonema costatum*) = 10mg/L

**Ethyl benzene** (CAS: 100-41-4)

72hr, EC<sub>50</sub>, Algal (*Selenastrum capricornutum*) = 4.6mg/L

96hr, LC<sub>50</sub>, Fish (*Oncorhynchus mykiss*) = 4.2mg/L

48hr, EC<sub>50</sub>, Crustacean (*Daphnia magna*) = 2.1mg/L

48hr, EC<sub>50</sub>, Soil toxicity = 130mg/L

## Section 13. Disposal Considerations

**Disposal Method:** The contents of the aerosol containers must be disposed of along with aerosol container or by purging provided that there is no ignition source in the vicinity, were the substance to ignite no person could possibly be at risk and that the concentration does not exceed any exposure limits that are in place.

The aerosol containers must be disposed of by being exported from New Zealand as waste, deposited in a landfill or by burning in an incineration plant.

Full details can be found in Section 7 of the document about the group standard, Aerosol (Toxic [6.7]) – HSR002520

## Section 14. Transport Information

This product is classified as a Dangerous Good for transport in New Zealand; NZS 5433:2012

### Road and Rail Transport

UN No: 1950  
Class-primary 2.1  
Packing Group N/A

### Air Transport

UN No: 1950  
Class-primary 2.1  
Packing Group N/A  
Proper Shipping Name AEROSOLS, Flammable

### Marine Transport

UN No: 1950  
Class-primary 2.1  
Packing Group N/A  
Proper Shipping Name AEROSOLS, Flammable

## Section 15. Regulatory Information

This substance is hazardous according to the HSNO (Minimum Degrees of Hazard) Regulations 2001

EPA Approval Code: HSR002517

HSNO Classification: 2.1.2A, 6.3A, 6.4A, 6.7B, 6.8B, 6.9B (repeated), 9.1D, 9.3C

HSNO Controls	Trigger Quantity
Approved Handler	3000L aggregate water capacity
Location Certificate	3000L aggregate water capacity
Signage	3000L aggregate water capacity
Emergency Response Plan	3000L aggregate water capacity
Secondary Containment	3000L aggregate water capacity

## Section 16. Other Information

Glossary

EC<sub>50</sub> Median effective concentration.  
EEL Environmental Exposure Limit.  
EPA Environmental Protection Authority.

Product Name: TS2014-12S  
Date issued: 19 December 2016

Issued by: Baskiville.com Ltd.  
Tel: 0508 227548

HSNO	Hazardous Substances and New Organisms.
LC <sub>50</sub>	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD <sub>50</sub>	Lethal dose to kill 50% of test animals/organisms
LEL	Lower Exposure Limit
OSHA	American Occupational Safety and Health Administration
TEL	Tolerable Exposure Limit
TLV	Threshold limit Value – an exposure limit set by responsible authority
UEL	Upper Exposure Limit
WES	Workplace Exposure Limit

#### Disclaimer

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