

1. Identification of Substance & Company

Product

Product name Hot 203L Low VOC HSNO approval HSR002669

Approval description Surface Coatings and Colourants (Flammable, Toxic [6.7]) Group Standard

2017

UN number 1133 DG class 3

Proper Shipping Name ADHESIVES

Packaging group || Hazchem code | 3YE

Uses PVC solvent cement

Company Details

Company HYDROFLOW Address 221 Bush Road,

Albany,

North Shore City 0632

 Telephone
 09 415 6151

 Fax
 09 415 6150

Email info@hydroflow.co.nz

National Poison Centre NZ (24 hours): 0800 POISON [764 766]

2. Hazard Identification

Approval

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002669, Surface Coatings and Colourants (Flammable, Toxic [6.7]) Group Standard 2017). The substance has been classified as hazardous according to the criteria in the Hazardous substances (Minimum Degrees of Hazard) Notice 2017.

Classes Hazard Statements

3.1B H225 - Highly flammable liquid and vapour.

6.1D (oral) H302 - Harmful if swallowed.

6.1E (respiratory irritation)
H335 - May cause respiratory irritation.
H315 - Causes skin irritation.

6.4A
6.7B
H319 - Causes serious eye irritation.
H341 - Suspected of causing cancer.

6.9B H373 - May cause damage to organs through prolonged or repeated exposure.

9.3C H433 - Harmful to terrestrial vertebrates. **SYMBOLS**

DANGER







Other Classifications

There are no other Classifications that are known to apply.

Precautionary Statements

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

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/spray.



LEADING WITH KNOWLEDGE

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*.

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

P301+P312 - IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell.

P330 - Rinse mouth.

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.

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.

P405 - Store locked up.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

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

3. Composition / Information on Ingredients

Component	CAS/ Identification	Conc (%)
Methyl ethyl ketone	78-93-3	10-30%
Tetrahydrofuran	109-99-9	40-60%
Acetone	67-64-1	5-20%

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). IF exposed or concerned: Get medical advice/ attention.

Recommended first aid

facilities

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

Exposure

Swallowed IF SWALLOWED: Do NOT induce vomiting. Rinse mouth. If vomiting occurs, place

victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs. IF exposed or concerned: Get medical advice/

attention.

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

present and easy to do. Apply continuous irrigation with water for at least 15 minutes

holding eyelids apart. If eye irritation persists: Get medical advice.

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.

Inhaled IF INHALED: Remove to fresh air and keep at rest in a position comfortable for

breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Advice to Doctor

Treat symptomatically

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 Unknown

substances:

Products of combustion:

3YE

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:

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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

stormwater.

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 >100L (containers >5L), 250L (containers ≤5L), 50L (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
 Methyl ethyl ketone
 150ppm, 445mg/m³
 300ppm, 890mg/m³

 Tetrahydrofuran
 100ppm, 295mg/m³
 data unavailable

 Acetone
 500ppm, 1185mg/m³
 1000ppm, 2375 mg/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

Eyes



Avoid contact with eyes. Use safety glasses and or chemical splash goggles if splashes are possible.

Skin



Protective gloves are recommended. Laminate film gloves are recommended. PVA gloves give poor protection. Nitrile, PVC, natural rubber and neoprene gloves are NOT recommended as tetrahydrofuran penetrates these materials. Replace gloves very frequently. Gloves should be checked for tears or holes before use.

Respiratory



A respirator when airborne concentrations approach the WES (section 8). Use a respirator with an organic vapour cartridge and a dust/mist filter. If using a respirator, ensure that the cartridges are correct for the potential air contamination and are in good working order.

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WES Additional Information

Not applicable

9. Physical & Chemical Properties

Appearance blue liquid
Odour pungent odour
pH no data

Vapour pressure 129mmHg at 20°C

Viscosity no data

Boiling point 66°C @ 760mmHg
Volatile materials 510g/L VOC
Freezing / melting point no data
Solubility soluble in water

Specific gravity / density 0.91

Flash point -17°C (SETA CC)

Danger of explosion not explosive

Auto-ignition temperature no data

Upper & lower flammable limits LEL: 1.8%, UEL 11.8%

Corrosiveness non corrosive

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 Strong oxidisers, acids, bases.

Substance Specific none known

Incompatibility

Hazardous decomposition oxides of carbon, HCl and fragmented hydrocarbons.

products

Hazardous reactions none known

11. Toxicological Information

Summary

IF SWALLOWED: small amounts if liquid aspired into the lungs during ingestion may cause chemical pneumonia or pulmonary oedema.

IF IN EYES: severely irritating.

IF ON SKIN: may cause irritation and dermatitis.

IF INHALED: overexposure may cause coughing, shortness of breath, dizziness, central nervous system depression,

intoxication and collapse. Vapours may be irritating to the respiratory system and mucous membranes. CHRONIC: this mixture contains tetrahydrofuran which is suspected of causing cancer (kidney, liver).

Supporting Data

Acute Oral Using LD₅₀'s for ingredients, the calculated LD₅₀ (oral, rat) for the mixture is between 300

and 2000 mg/kg. Data considered includes: Methyl ethyl ketone 2737 mg/kg (rat),

Tetrahydrofuran 1650mg/kg (rat), Acetone 3000 mg/kg (mouse).

Dermal No evidence of dermal toxicity.

Inhaled No evidence of acute inhalation toxicity.

None known.

Eye The mixture is considered to be an eye irritant. Methyl ethyl ketone, tetrahydrofuran and

acetone are considered eye irritants.

Skin The mixture is considered to be a skin irritant. Methyl ethyl ketone, tetrahydrofuran and

acetone are considered skin irritants.

ChronicSensitisation
Mutagenicity
No ingredient present at concentrations > 0.1% is considered a sensitizer.
No ingredient present at concentrations > 0.1% is considered a mutagen.

Carcinogenicity The mixture is considered to be a suspected carcinogen. Tetrahydrofuran is a suspected

carcinogen. Animal experiments have shown susceptibility to kidney or liver tumours. No ingredient present at concentrations > 0.1% is considered a reproductive or

Developmental developmental toxicant or have any effects on or via lactation.

Systemic The mixture is considered to be a suspected target organ toxicant. Methyl ethyl ketone

and tetrahydrofuran are classed as suspected systemic toxicants by EPA.

Aggravation of

existing conditions

Reproductive /

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12. Ecological Data

Summary

This mixture is not considered ecotoxic in the aquatic environment. It is considered harmful towards terrestrial vertebrates.

Supporting Data

Aquatic No evidence of aquatic ecotoxicity =.

Bioaccumulation No data
Degradability No data

Soil No evidence of soil toxicity.

Terrestrial vertebrate The mixture is considered harmful to terrestrial vertebrates. Using LD₅₀'s for ingredients,

the calculated LD₅₀ (oral, rat) for the mixture is between 500 and 2,000 mg/kg. Data considered includes: Methyl ethyl ketone 2737 mg/kg (rat), Tetrahydrofuran 1650mg/kg

(rat), Acetone 3000 mg/kg (mouse).

Terrestrial invertebrate No evidence of ecotoxicity 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: 1133 Proper shipping name: ADHESIVES

Class(es)3Packing group:IIPrecautions:Flammable liquidHazchem code:3YE

IMDG

UN number: 1133 Proper shipping name: ADHESIVES

Class(es) 3 Packing group: II
Precautions: NA EmS F-E, S-D

IATA

UN number: 1133 Proper shipping name: ADHESIVES

Class(es)3Packing group:IIPrecautions:NAERG Guide127



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Safety Data Sheet

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, Toxic [6.7]) Group Standard 2017. All ingredients appear 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

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

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 > 250L is stored in any one location.

Location compliance certificate Required if > 100L (>5L), 250L (\le 5L), 50L (in use) is stored in any one location. Flammable zone Must be established if > 100L (closed), 25L (decanting), 5L (open occasionally),

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

Fire extinguisher If > 250L 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

CAS Number

Approval Code Approval HSR002669, Surface Coatings and Colourants (Flammable, Toxic [6.7]) Group

Standard 2017 Controls, EPA. www.epa.govt.nz
Unique Chemical Abstracts Service Registry Number

EC50 Ecotoxic Concentration 50% – concentration in water which is fatal to 50% of a test

population (e.g. daphnia, fish species)

EPA Environmental Protection Authority (New Zealand)

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)

International Agency for Research on Cancer

LEL Lower Explosive Limit

LD₅₀ Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats).

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

(usually rats)

NZIoC New Zealand Inventory of Chemicals

MSDS (SDS) Material Safety Data Sheet (or Safety Data Sheet)

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

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

(usually 8 hours)

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

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



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References

Unless otherwise stated comes from the EPA HSNO chemical classification information Data

database (CCID).

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

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: EU ECHA, ingredients SDS's, ChemIDplus

Review

Date Reason for review August 2015 Not applicable - new SDS

5 yearly update. Hazard and Precautionary phrase numbers, HSE to HSAW, MBIE to July 2020

Worksafe, review of toxicological section. Group standard, section 13, 14 and 15.

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 quidelines are given for personal protective equipment, such precautions must be relevant to the use. The likely HSNO 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 9 940 30 80.

