

# 1. Identification of Substance & Company

Product	
Product name HSNO approval Approval description UN number DG class Proper Shipping Name Packaging group Hazchem code Uses	5152-4 HSR002662 Surface Coatings and Colourants (Flammable) Group Standard 2020 1210 3 PRINTING INK II 3YE Printing ink
Company Details	
Company Address	MITech Limited 60 Cawley Street PO Box 394962 Ellerslie 1547 Auckland New Zealand
Telephone Email Website	+64 9 915 5555 askmi@mitech.co.nz www.mitech.co.nz Emergency Telephone Number: 0800-764 766

# 2. Hazard Identification

#### Approval

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002662, Surface Coatings and Colourants (Flammable) Group Standard 2020). The substance has been classified as hazardous according to the criteria in the Hazardous substances (Hazard Classification) Notice 2020.

H225 - Highly flammable liquid and vapour.

H336 - May cause drowsiness or dizziness.

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

H319 - Causes serious eye irritation.

#### GHS 7 Classes

Hazard Statements

Flammable liquid category 2 Eye irritant category 2 STOT\* single exposure category 3 STOT\* repeated exposure category 2

\*STOT – System target organ toxicity

SYMBOLS DANGER

Other Classifications

There are no other classifications that are known to apply.



#### Precautionary Statements

Prevention	<ul> <li>P103 - Read label before use.</li> <li>P210 - Keep away from ignition sources. No smoking.</li> <li>P233 - Keep container tightly closed.</li> <li>P240 - Ground/bond container and receiving equipment.</li> <li>P241 - Use explosion-proof electrical equipment.</li> <li>P242 - Use only non-sparking tools.</li> <li>P243 - Take precautionary measures against static discharge.</li> <li>P260 - Do not breathe vapours.</li> <li>P264 - Wash hands thoroughly after handling.</li> <li>P270 - Do not eat, drink or smoke when using this product.</li> <li>P271 - Use only outdoors or in a well-ventilated area.</li> <li>P280 - Wear protective gloves/eye/face protection.</li> </ul>
Response	<ul> <li>P309+P311 - IF exposed or if you feel unwell: Call a POISON CENTRE or doctor/physician.P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.</li> <li>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P337+P313 - If eye irritation persists: Get medical advice/attention.</li> <li>P304+P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.</li> <li>P312 - Call a POISON CENTRE or doctor/physician if you feel unwell.</li> </ul>
Storage	P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P405 - Store locked up.
Disposal	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	90-100%
Methylisobutyl ketone	108-10-1	1-5%

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	Ready access to running water is recommended.	Accessible eyewash is recommended.
facilities		

Exposure	
Swallowed	Do NOT induce vomiting. Give a glass of water to drink. If medical advice is needed, have product container or label at hand. Call a POISON CENTER or doctor/physician if you feel unwell.
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

5.	Firefighting Measure	es
Fire an	d 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	Carbon dioxide, extinguishing powder, foam.
substances:	
Unsuitable extinguishing	Unknown.
substances:	
Page 2 of 7	
December 2023	Product Name: 5152-4



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Products of combustion: Protective equipment:	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. Self-contained breathing apparatus. Safety boots, non-flammable overalls, gloves, hat and eye protection.
Hazchem code:	3YE
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 on concentrate. Prevent by whatever means possible any spillage from entering drains, sewers, or water courses. (If this occurs contact your regional council immediately).
Clean-up method Disposal	Use absorbent (soil, sand or other inert material). Rags are not recommended for the 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. Mop up and collect recoverable material into labelled containers for recycling or salvage.
Precautions	Recycle containers wherever possible. This material may be suitable for approved landfill. Dispose of only in accord with all regulations. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation.
7. Storage & Handling	
Storage Handling	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. Keep exposure to a minimum, and minimise the quantities kept in work areas. See section 8 with regard to personal protective equipment requirements.
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/m<sup>3</sup> for respirable particulates and 10mg/m<sup>3</sup> for inhalable particulates when limits have not otherwise been established.

NZ Workplace	Ingredient	WES-TWA*	WES-STEL
Exposure Stds	Methyl ethyl ketone	150ppm, 445mg/m <sup>3</sup>	300ppm, 890mg/m <sup>3</sup>
	Methylisobutyl ketone	50ppm, 205mg/m <sup>3</sup>	75ppm, 307mg/m <sup>3</sup>

#### 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

Skin

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.

If discomfort is felt (e.g., if pre-existing conditions exist, such as dermatitis, cuts or sensitive skin), gloves may be helpful. If you suffer from dermatitis type skin conditions, use gloves. Butyl rubber 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.

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 a 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

Respiratory

## 9. Physical & Chemical Properties

Appearance Odour Odour Threshhold pH Freezing/melting point Boiling Point Flashpoint Flammability Upper & lower flammable limits Vapour pressure Vapour density Specific gravity/density Solubility Partition coefficient	colourless liquid solvent no data <-80°C >75°C >-9°C flammable liquid LEL: 1.2%, UEL 11.5% 13.3kPa (25°C) no data 0.805 (20°C) partly soluble no data
Specific gravity/density	0.805 (20°C)
2	
Auto-ignition temperature	>450°C
Decomposition temperature Viscosity	no data no data
Particle Characteristics	no data

# 10. Stability & Reactivity

Stability Conditions to be avoided	Stable 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	Strong oxidising agents None known
Hazardous decomposition products	Oxides of carbon
Hazardous reactions	None known

11. Toxicological Information

### Summary

If SWALLOWED: if large quantities are swallowed: symptoms include nausea and vomiting. Swallowing of the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis.

IF IN EYES: May cause severe eye irritation.

IF ON SKIN: repeated or prolonged exposure may cause skin irritation and dermatitis (non-allergic), due to degreasing properties of the product.

IF INHALED: May high concentrations may cause irritation of the respiratory tract. vapours may cause dizziness and drowsiness. High concentrations may cause central nervous system depression, headaches, dizziness, tiredness and incoordination and in extreme cases loss of consciousness.



#### Supporting Data

Acute	Oral	Using LD <sub>50</sub> 's for ingredients, the calculated LD <sub>50</sub> (oral, rat) for the mixture is >2000mg/kg.
		Data considered includes: Methyl ethyl ketone 2737 mg/kg (rat), Methylisobutyl ketone
		1600mg/kg (guinea pig).
	Aspiration	This mixture is not considered an aspiration hazard.
	Dermal	No evidence of acute dermal toxicity. Data considered includes: Methyl ethyl ketone
		6480mg/kg (rabbit).
	Inhaled	No evidence of acute inhalation toxicity.
	Eye	The mixture is considered to be an eye irritant. Methyl Ethyl ketone is considered an eye
		irritant.
	Skin	The mixture is not considered to be a skin irritant.
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 /	No ingredient present at concentrations > 0.1% is considered a reproductive or
	Developmental	developmental toxicant or have any effects on or via lactation.
	Systemic	Inhalation of vapours may have a narcotic effect (methyl ethyl ketone).
	Aggravation of	None known.
	existing conditions	

12. Ecological Data

## Summary

This mixture is not considered ecotoxic. In all cases prevent run-off to waterways, drains and sewers.

Supporting Data				
Aquatic Bioaccumulation Degradability Soil Terrestrial vertebrate Terrestrial invertebrate Biocidal	No evidence of aquatic ecotoxicity. No data No data No evidence of soil toxicity. This mixture is not considered ecotoxic to terrestrial vertebrates. See acute toxicity. No evidence of toxicity towards terrestrial invertebrates. no data			
13. Disposal Considerations				
Restrictions Disposal method Contaminated packaging	There are no product-specific restrictions, however, local council and resource consent conditions may apply, including requirements of trade waste consents. 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. Disposal of contaminated packaging must comply with the Hazardous Substances (Disposal) Notice 2017 clause 12. Ensure that the package is renedered 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 hazardous substance for transport.

UN number: Class(es) Precautions:	1210 3 Flammable liquid	Proper shipping name: Packing group: Hazchem code:	PRINTING INK II 3YE
IMDG UN number: Class(es) Precautions:	1210 3 Flammable liquid	Proper shipping name: Packing group: EmS	PRINTING INK II F-E, S-D
IATA UN number: Class(es) Precautions:	1210 3 Flammable liquid	Proper shipping name: Packing group: ERG Code	PRINTING INK II 3L

Page 5 of 7 December 2023



# 15. Regulatory Information

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR002662, Surface Coatings and Colourants (Flammable) Group Standard 2020. All ingredients appear on the NZIoC.

Specific Controls	
Key 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.
Location compliance certificate	Required if > 100L (containers >5L), 250L (containers ≤5L), 50L (in use) is stored.
Flammable zone	Must be established if > 100L (closed containers), 25L (decanting), 5L (open occasionally), 1L (in use), is stored.
Fire extinguisher	If > 250L present.
Note: The charge worked as requirement	ante expluit expluite particular substance is present. The complete set of controls for a

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 Informa	ation
Abbreviations	
Approval Code	Approval HSR002662, Surface Coatings and Colourants (Flammable) 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)
EPA	Environmental Protection Authority (New Zealand)
GHS	Globally Harmonised System of Classification and Labelling of Chemicals, 7 <sup>th</sup> revised 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)
ARC	International Agency for Research on Cancer
LEL	Lower Explosive Limit
LD <sub>50</sub> LC <sub>50</sub>	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
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
STOT SE	System Target Organ Toxicity – Single Exposure
TWA	Time Weighted Average – generally referred to WES averaged over typical work day (usually 8 hours)
UEL	Upper Explosive Limit
JN 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
Page 6 of 7	
December 2023	Product Name: 5152



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

References	
Data	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:	EU ECHA, ingredients SDS's, ChemIDplus

#### Review

Date October 2018 December 2023 Reason for review Not applicable – new SDS 5 yearly update

#### 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.

