

IATA

Product name: InfinityLab LC Installation Standard Kit

Part no.: 5191-4548

This product is composed of the following:

Kit Components, Reagents

Box/Module Part number	Box/Module Name	Kit Component Part Number	Kit Component Name	Qty Units	GHS
	-	5191-4547-1	InfinityLab LC Performance Checkout Std	1	Yes
-	-	5191-4549-1	LCMS Grade Formic Acid	1	Yes

Article SDSs, if maintained, are available on www.agilent.com. We recommend using the article product code when searching. SDSs are only available for a limited set of countries.

Transport Information for the Kit:

ADG

Dangerous Goods classification for:

r: **5**191-4548

M3316, CHEMICAL KIT, 9, II	N3316, CHEMICAL KIT, 9, II	N3316, Chemical kit, 9, II

IMDG

pe minimis quantities

Table of contents

Kit Component Name	Page
LCMS Grade Formic Acid	2
InfinityLab LC Performance Checkout Std	

SDSs for each individual Kit component follow this cover sheet.

Date of issue: 30/06/2025
SDS Country: Australia

SDS Country: Australia 1/24

SAFETY DATA SHEET



LCMS Grade Formic Acid

Section 1. Identification

Product identifier : LCMS Grade Formic Acid

Part no. : 5191-4549-1
Chemical identity : Formic acid

Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Reagents and Standards for Analytical Chemistry Laboratory Use

2 x 1 ml

Supplier/Manufacturer : Agilent Technologies Australia Pty Ltd

679 Springvale Road

Mulgrave

Victoria 3170, Australia

1800 802 402

Emergency telephone number (with hours of

operation)

: CHEMTREC®: +(61)-290372994

Section 2. Hazard(s) identification

Classification of the substance or mixture

H226 FLAMMABLE LIQUIDS - Category 3
H302 ACUTE TOXICITY (oral) - Category 4
H331 ACUTE TOXICITY (inhalation) - Category 3
H314 SKIN CORROSION/IRRITATION - Category 1A

H318 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1

GHS label elements

Hazard pictograms :







Signal word : DANGER

Hazard statements : H226 - Flammable liquid and vapour.

H302 - Harmful if swallowed.

H314 - Causes severe skin burns and eye damage.

H331 - Toxic if inhaled.

Precautionary statements

Prevention : P280 - Wear protective gloves, protective clothing and eye or face protection.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

Response : P304 + P310 - IF INHALED: Immediately call a POISON CENTER or doctor.

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated

clothing. Rinse skin with water.

Storage : Not applicable.

Disposal : P501 - Dispose of contents and container in accordance with all local, regional,

national and international regulations.

Supplemental label elements

Date of issue/Date of revision: 30/06/2025Date of previous issue: No previous validationVersion: 12/24

LCMS Grade Formic Acid

Section 2. Hazard(s) identification

Additional warning phrases

: Corrosive to the respiratory tract.

Other hazards which do n result in classification

Other hazards which do not : Causes severe digestive tract burns.

Section 3. Composition and ingredient information

Substance/mixture : Substance

Ingredient name	% (w/w)	Identifiers
Formic acid	100	CAS: 64-18-6 EC: 200-579-1

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

The total concentration of ingredients in this product, reported or not in this section, is 100%.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact

: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

Inhalation

: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact

: Get medical attention immediately. Call a poison center or physician. Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : Toxic if inhaled. Corrosive to the respiratory tract. Causes burns.

Skin contact: Causes severe burns.

Date of issue/Date of revision: 30/06/2025Date of previous issue: No previous validationVersion: 13/24

Section 4. First aid measures

Ingestion

Severely corrosive to the digestive tract. Causes severe burns. May cause burns to mouth, throat and stomach. Harmful if swallowed.

Over-exposure signs/symptoms

Eye contact

: Adverse symptoms may include the following:

pain watering redness

Inhalation

: Adverse symptoms may include the following:

respiratory tract irritation

coughing

Skin contact

: Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

Ingestion

: Adverse symptoms may include the following:

stomach pains

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments

: No specific treatment.

Protection of first-aiders

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing media

: Use dry chemical, CO2, water spray (fog) or foam.

Unsuitable extinguishing

media

: Do not use water jet.

Specific hazards arising from the chemical

: Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapour/gas is heavier than air and will spread along the ground. Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.

Hazardous thermal decomposition products

 Decomposition products may include the following materials: carbon dioxide

carbon monoxide

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Hazchem code : •2W

Date of issue/Date of revision: 30/06/2025Date of previous issue: No previous validationVersion: 14/24

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders:

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and material for containment and cleaning up

Methods for cleaning up

: 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 via a licensed waste disposal contractor.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Date of issue/Date of revision : 30/06/2025 Date of previous issue : No previous validation Version : 1 5/24

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Formic acid	Safe Work Australia (Australia, 1/2024) STEL 15 minutes: 19 mg/m³. STEL 15 minutes: 10 ppm. TWA 8 hours: 9.4 mg/m³. TWA 8 hours: 5 ppm.

Biological exposure indices

No exposure indices known.

Appropriate 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.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Date of issue/Date of revision : 30/06/2025 Date of previous issue : No previous validation Version : 1 6/24

Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state : Liquid.

Colour : Colourless.

Odour : Pungent.

Odour threshold : Not available.

ph : Not available.

Melting point/freezing point : 4°C (39.2°F) [OECD 102]

Boiling point or initial boiling point and boiling

boiling point and boiling

range

Flash point : Closed cup: 49.5°C (121.1°F) [DIN EN ISO 13736]

: 100.23°C (212.4°F) [OECD 103]

Evaporation rate : 1.14 (butyl acetate = 1)

Flammability : Not applicable.

Lower and upper explosion : Lower: 18%

limit/flammability limit Upper: 51%

Vapour pressure : 4.3 kPa (32.03522 mm Hg) [room temperature] [EU A.4]

17.4 kPa (130.51 mm Hg) [50°C (122°F)]

Relative vapour density : 1.6 [Air = 1]

Relative density : 1.2

Density : 1.22 g/cm³ [20°C (68°F)]

Solubility(ies) : Media

 Media
 Result

 methanol
 Soluble

 diethyl ether
 Soluble

 acetone
 Soluble

 water
 Soluble

Miscible with water : Yes.

Partition coefficient: n-

octanol/water

: -2.3 [OECD 107]

Auto-ignition temperature : 434°C (813.2°F)

Decomposition temperature: 150 to 300°C (302 to 572°F)

Heat of combustion : -4756670 J/kg

Viscosity : Dynamic (room temperature): 1.8 mPa·s (1.8 cP) [OECD 114]

Kinematic (room temperature): 1.47 mm²/s (1.47 cSt) [OECD 114] Kinematic (40°C (104°F)): 1.02 mm²/s (1.02 cSt) [OECD 114]

Particle characteristics

Median particle size : Not applicable.

Section 10. Stability and reactivity

Reactivity: No specific test data related to reactivity available for this product or its ingredients.

Chemical stability: The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld,

braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not

allow vapour to accumulate in low or confined areas.

Date of issue/Date of revision : 30/06/2025 Date of previous issue : No previous validation Version : 1 7/24

Section 10. Stability and reactivity

Incompatible materials

: Reactive or incompatible with the following materials:

oxidising materials

Reactive or incompatible with the following materials: metals and alkalis. Slightly reactive or incompatible with the following materials: acids.

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name Result

Formic acid Rat - Oral - LD50 730 mg/kg

Rat - Inhalation - LC50 Vapour 7400 mg/m³ [4 hours]

Conclusion/Summary

[Product]

: Not available.

Skin corrosion/irritation

Conclusion/Summary

[Product]

: Not available.

Serious eye damage/eye irritation

Product/ingredient name Result

Formic acid Rabbit - Eyes - Severe irritant Amount/concentration

applied: 122 mg

Conclusion/Summary

[Product]

: Not available.

Respiratory corrosion/irritation

Conclusion/Summary

[Product]

: Not available.

Respiratory or skin sensitization

Skin

Conclusion/Summary

[Product]

: Not available.

Respiratory

Conclusion/Summary

[Product]

: Not available.

Germ cell mutagenicity

Conclusion/Summary

[Product]

: Not available.

Carcinogenicity

Conclusion/Summary

[Product]

: Not available.

Reproductive toxicity

Conclusion/Summary

[Product]

: Not available.

Date of issue/Date of revision : 30/06/2025 Date of previous issue : No previous validation Version : 1 8/24

Section 11. Toxicological information

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure

: Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : Toxic if inhaled. Corrosive to the respiratory tract. Causes burns.

Skin contact : Causes severe burns.

Ingestion: Severely corrosive to the digestive tract. Causes severe burns. May cause burns to

mouth, throat and stomach. Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:

pain watering redness

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

Skin contact: Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

Ingestion: Adverse symptoms may include the following:

stomach pains

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate

: Not available.

effects

Potential delayed effects: Not available.

Long term exposure

Potential immediate : Not a

: Not available.

effects

Potential delayed effects: Not available.

Potential chronic health effects

Conclusion/Summary: Not available.

[Product]

General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Reproductive toxicity : No known significant effects or critical hazards.

Date of issue/Date of revision : 30/06/2025 Date of previous issue : No previous validation Version : 1 9/24

LCMS Grade Formic Acid

Section 11. Toxicological information

Numerical measures of toxicity

Acute toxicity estimates

	(3	(mg/kg)	(gases)	· · /	Inhalation (dusts and mists) (mg/l)
Formic acid	730	N/A	N/A	7.4	N/A

Section 12. Ecological information

Toxicity

Product/ingredient name

Formic acid Acute - NOEC - Fresh water

≥100 mg/l [21 days] Daphnia - *Daphnia*

magna

Acute - EC50 - Fresh water 151.2 mg/l [48 hours]

Daphnia - Water flea - Daphnia magna - Larvae

Conclusion/Summary

[Product]

: Not available.

Result

Persistence and degradability

Conclusion/Summary

[Product]

: Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Formic acid	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Formic acid	-2.3	-	Low

Mobility in soil

Soil/water partition coefficient

: 5.39642 Koc

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Date of issue/Date of revision : 30/06/2025 Date of previous issue : No previous validation Version : 1 10/24

Section 14. Transport information

ADG / IMDG / IATA : Not regulated as Dangerous Goods according to the ADG Code .

Additional information

Remarks: De minimis quantities

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

Transport in bulk according : Not available.

to IMO instruments

Section 15. Regulatory information

Standard for the Uniform Scheduling of Medicines and Poisons

5

Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : This material is listed or exempted.

New Zealand : This material is listed or exempted.

United States : This material is active or exempted.

Section 16. Any other relevant information

History

Date of issue/Date of : 30/06/2025

revision

Date of previous issue : No previous validation

Version : 1

Key to abbreviations : ADG = Australian Dangerous Goods

ADR = The European Agreement concerning the International Carriage of

Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

 Date of issue/Date of revision
 : 30/06/2025
 Date of previous issue
 : No previous validation
 Version
 : 1
 11/24

LCMS Grade Formic Acid

Section 16. Any other relevant information

N/A = Not available

RID = The Regulations concerning the International Carriage of Dangerous Goods

by Rail

SGG = Segregation Group

SUSMP = Standard Uniform Schedule of Medicine and Poisons

UN = United Nations

Procedure used to derive the classification

Classification	Justification
FLAMMABLE LIQUIDS - Category 3	Expert judgment
ACUTE TOXICITY (oral) - Category 4	Expert judgment
ACUTE TOXICITY (inhalation) - Category 3	On basis of test data
SKIN CORROSION/IRRITATION - Category 1A	Expert judgment
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1	Expert judgment

[✓] Indicates information that has changed from previously issued version.

Notice to reader

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Date of issue/Date of revision : 30/06/2025 Date of previous issue : No previous validation Version : 1 12/24

SAFETY DATA SHEET



InfinityLab LC Performance Checkout Std

Section 1. Identification

Product identifier : InfinityLab LC Performance Checkout Std

Part no. : 5191-4547-1

Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Reagents and Standards for Analytical Chemistry Laboratory Use

2 x 0.5 ml

Supplier/Manufacturer : Agilent Technologies Australia Pty Ltd

679 Springvale Road

Mulgrave

Victoria 3170, Australia

1800 802 402

Emergency telephone number (with hours of

operation)

: CHEMTREC®: +(61)-290372994

Section 2. Hazard(s) identification

Classification of the substance or mixture

H225 FLAMMABLE LIQUIDS - Category 2
H301 ACUTE TOXICITY (oral) - Category 3
H311 ACUTE TOXICITY (dermal) - Category 3
H331 ACUTE TOXICITY (inhalation) - Category 3

H350 CARCINOGENICITY - Category 1

H370 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 1

H400 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 H410 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1

GHS label elements

Hazard pictograms









Signal word : DANGER

Hazard statements : H225 - Highly flammable liquid and vapour.

H301 + H311 + H331 - Toxic if swallowed, in contact with skin or if inhaled.

H350 - May cause cancer.

H370 - Causes damage to organs.

H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention: P201 - Obtain special instructions before use.

P280 - Wear protective gloves, protective clothing and eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P273 - Avoid release to the environment.

Response : P391 - Collect spillage.

Storage : Not applicable.

Disposal : P501 - Dispose of contents and container in accordance with all local, regional,

national and international regulations.

Supplemental label elements

Date of issue/Date of revision : 30/06/2025 Date of previous issue : No previous validation Version : 1 13/24

Section 2. Hazard(s) identification

Additional warning phrases

: Not applicable.

Other hazards which do not : None known. result in classification

Section 3. Composition and ingredient information

Substance/mixture : Mixture

Ingredient name	% (w/w)	Identifiers
Methanol	≥75 - ≤90	CAS: 67-56-1 EC: 200-659-6
bis(2-Ethylhexyl) phthalate	≤0.3	CAS: 117-81-7 EC: 204-211-0

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

The total concentration of ingredients in this product, reported or not in this section, is 100%.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact

Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : Toxic if inhaled. Causes damage to organs following a single exposure if inhaled.

Date of issue/Date of revision : 30/06/2025 14/24 Date of previous issue Version: 1 : No previous validation

Section 4. First aid measures

Skin contact

: Toxic in contact with skin. Causes damage to organs following a single exposure in

contact with skin.

Ingestion Toxic if swallowed. Causes damage to organs following a single exposure if

swallowed.

Over-exposure signs/symptoms

Eye contact : No specific data. Inhalation : No specific data. Skin contact : No specific data. Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it

is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing

thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing

media

: Use dry chemical, CO2, water spray (fog) or foam.

Unsuitable extinguishing

media

: Do not use water jet.

Specific hazards arising

from the chemical

: Highly flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products Decomposition products may include the following materials:

carbon dioxide carbon monoxide Formaldehyde.

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

•2WE Hazchem code

Date of issue/Date of revision : 30/06/2025 15/24 Date of previous issue Version: 1 : No previous validation

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders:

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

Methods and material for containment and cleaning up

Methods for cleaning up

: 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 via a licensed waste disposal contractor.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8). Avoid exposure obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Date of issue/Date of revision : 30/06/2025 Date of previous issue : No previous validation Version : 1 16/24

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits		
Methanol	Safe Work Australia (Australia, 1/2024) Absorbed through skin. STEL 15 minutes: 328 mg/m³. STEL 15 minutes: 250 ppm. TWA 8 hours: 262 mg/m³. TWA 8 hours: 200 ppm.		
bis(2-Ethylhexyl) phthalate	Safe Work Australia (Australia, 1/2024) STEL 15 minutes: 10 mg/m³. TWA 8 hours: 5 mg/m³.		

Biological exposure indices

No exposure indices known.

Appropriate 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.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Date of issue/Date of revision : 30/06/2025 Date of previous issue : No previous validation Version : 1 17/24

Section 8. Exposure controls and personal protection

Respiratory protection

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state : Liquid.

Colour : Not available.

Odour : Not available.

Odour threshold : Not available.

pH : Not available.

Melting point/freezing point : Not available.

Boiling point or initial : Not available.

boiling point and boiling

range

Flash point : Closed cup: -18 to 23°C (-0.4 to 73.4°F)

Evaporation rate : Not available.Flammability : Not applicable.Lower and upper explosion : Not available.

limit/flammability limit

Vapour pressure

: 10.9 kPa (81.505859 mm Hg) [Calculated]

Relative vapour density : Not available.
Relative density : Not available.

Solubility(ies)

MediaResultwaterSoluble

Miscible with water

Partition coefficient: n-

octanol/water

Yes.
Not applicable.

Auto-ignition temperature

Ingredient name	°C	°F	Method
Methanol	455	851	DIN 51794

Decomposition temperature

Viscosity

: Not available.: Dynamic (room temperature): Not available.

Kinematic (100m temperature): Not available. Kinematic (40°C (104°F)): Not available.

Particle characteristics

Median particle size : Not applicable.

Section 10. Stability and reactivity

Reactivity: No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Date of issue/Date of revision: 30/06/2025Date of previous issue: No previous validationVersion: 118/24

Section 10. Stability and reactivity

Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld,

braze, solder, drill, grind or expose containers to heat or sources of ignition.

: Reactive or incompatible with the following materials: Incompatible materials

oxidising materials

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name Result

Rabbit - Dermal - LD50 Methanol 15800 mg/kg Rat - Oral - LD50 5600 mg/kg

> Rat - Inhalation - LC50 Vapour 145000 ppm [1 hours] Rat - Inhalation - LC50 Vapour 64000 ppm [4 hours] Rat - Inhalation - LC50 Vapour 83.84 mg/l [4 hours] Rat - Inhalation - LC50 Vapour 189.95 mg/l [1 hours]

bis(2-Ethylhexyl) phthalate Rabbit - Dermal - LD50 25 g/kg

Rat - Oral - LD50 30 g/kg

Conclusion/Summary

[Product]

: Not available.

Skin corrosion/irritation

Product/ingredient name Result

Methanol Rabbit - Skin - Moderate irritant Duration of treatment/

> exposure: 24 hours Amount/concentration

applied: 20 mg Rabbit - Skin - Mild irritant bis(2-Ethylhexyl) phthalate

Duration of treatment/ exposure: 24 hours Amount/concentration applied: 500 mg

Conclusion/Summary

[Product]

: Repeated exposure may cause skin dryness or cracking.

Ingredient name

Conclusion/Summary

Methanol Repeated exposure may cause skin dryness or cracking.

Serious eye damage/eye irritation

Product/ingredient name Result

Methanol Rabbit - Eyes - Moderate irritant Duration of treatment/

> exposure: 24 hours Amount/concentration

applied: 100 mg Amount/concentration

applied: 40 mg Rabbit - Eyes - Severe irritant Amount/concentration

applied: 0.1 MI

bis(2-Ethylhexyl) phthalate Rabbit - Eyes - Mild irritant Duration of treatment/

Rabbit - Eyes - Moderate irritant

exposure: 24 hours Amount/concentration applied: 500 mg

Amount/concentration Rabbit - Eyes - Mild irritant

applied: 500 mg

Conclusion/Summary [Product]

: May cause eye irritation.

Date of issue/Date of revision : 30/06/2025 Version: 1 19/24 Date of previous issue : No previous validation

Section 11. Toxicological information

Ingredient nameConclusion/SummaryMethanolMay cause eye irritation.

Respiratory corrosion/irritation

Conclusion/Summary

[Product]

: Not available.

Respiratory or skin sensitization

Skin

Conclusion/Summary

[Product]

: Not available.

Respiratory

Conclusion/Summary

[Product]

: Not available.

Germ cell mutagenicity

Conclusion/Summary

[Product]

: Not available.

Carcinogenicity

Conclusion/Summary

[Product]

: Not available.

Reproductive toxicity

Conclusion/Summary

[Product]

: Repeated or prolonged exposure to the substance can produce reproductive system

damage.

Ingredient name Conclusion/Summary

Methanol Repeated or prolonged exposure to the substance can produce

reproductive system damage.

Specific target organ toxicity (single exposure)

Product/ingredient name Result

Methanol SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE -

Category 1

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure

: Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Potential acute health effects

Eye contact: No known significant effects or critical hazards.

Inhalation : Toxic if inhaled. Causes damage to organs following a single exposure if inhaled.

Skin contact : Toxic in contact with skin. Causes damage to organs following a single exposure in

contact with skin.

Date of issue/Date of revision: 30/06/2025Date of previous issue: No previous validationVersion: 120/24

Section 11. Toxicological information

Ingestion : Toxic if swallowed. Causes damage to organs following a single exposure if

swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

: No specific data. **Eye contact** Inhalation : No specific data. **Skin contact** : No specific data. Ingestion : No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate

: Not available.

effects

Potential delayed effects: Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects: Not available.

Potential chronic health effects

Conclusion/Summary

[Product]

: Not available.

General : No known significant effects or critical hazards.

Carcinogenicity : May cause cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity : No known significant effects or critical hazards. : No known significant effects or critical hazards. Reproductive toxicity

Numerical measures of toxicity

Acute toxicity estimates

· · · · · · · · · · · · · · · · · · ·	Oral (mg/ kg)	Dermal (mg/kg)	(gases)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
InfinityLab LC Performance Checkout Std	131.9	395.8	N/A	4.0	N/A
Methanol	100	300	N/A	3	N/A
bis(2-Ethylhexyl) phthalate	30000	25000	N/A	N/A	N/A

Other information

: Adverse symptoms may include the following: blurred or double vision, Eye contact can result in corneal damage or blindness. Repeated or prolonged exposure to the substance can produce liver damage. Narcotic effect. May cause nervous system disturbances.

Section 12. Ecological information

Toxicity

Proc	luct/	ingred	ient	name	F	Result
------	-------	--------	------	------	---	--------

Methanol Acute - LC50 - Marine water 2500 mg/l [48 hours] Crustaceans - Common shrimp, sand shrimp -

Crangon crangon - Adult Fish - Zebra danio -

Acute - LC50 - Fresh water 290 mg/l [96 hours] Danio rerio - Egg 9.96 mg/l [96 hours]

Algae - Green algae -

Ulva pertusa Acute - EC50 - Marine water 2736 mg/l [96 hours] Algae - Green algae -

Ulva pertusa

Date of issue/Date of revision : 30/06/2025 21/24 Date of previous issue Version: 1 : No previous validation

Chronic - NOEC - Marine

water

Section 12. Ecological information

bis(2-Ethylhexyl) phthalate Acute - LC50 - Fresh water 37.95 mg/l [96 hours] Fish - common carp -

*Cyprinus carpio*Daphnia - Water flea -

Chronic - NOEC - Fresh water 0.077 mg/l [21 days]

Daphnia magna

Chronic - NOEC - Fresh water 0.1 µg/l [28 days]

Fish - Guppy - *Poecilia* reticulata - Larvae

Acute - EC50 6.02 mg/l [96 hours]

Algae - Green algae - Chlorella vulgaris - Exponential growth

phase

Acute - LC50 - Marine water 1.04 ng/l [48 hours]

Crustaceans - Copepod - Parvocalanus crassirostris - Nauplii

Chronic - NOEC - Marine 1.2 µg/l [4 days]

Algae - Dinoflagellate - Alexandrium pacificum

water

Conclusion/Summary [Product]

: Not available.

Persistence and degradability

Product/ingredient name Result

bis(2-Ethylhexyl) phthalate OECD [Ready 82% [29 days] - Readily Aerobic - 20.3 mg/l -

Activated sludge

Biodegradability - CO2 Evolution Test]

OECD [Ready 82% [29 days] - Readily Aerobic - 20.3 mg/l

Biodegradability - CO2

Evolution Test]

Conclusion/Summary

[Product]

: Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Methanol	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Methanol	-0.77	<10	Low
bis(2-Ethylhexyl) phthalate	7.6	1380	High

Mobility in soil

Soil/water partition coefficient

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and

Date of issue/Date of revision : 30/06/2025 Date of previous issue : No previous validation Version : 1 22/24

Section 13. Disposal considerations

Section 14. Transport information

ADG / IMDG / IATA : Not regulated as Dangerous Goods according to the ADG Code .

Additional information

Remarks: De minimis quantities

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

Transport in bulk according : Not available.

to IMO instruments

Section 15. Regulatory information

Standard for the Uniform Scheduling of Medicines and Poisons

Model Work Health and Safety Regulations - Scheduled Substances

Ingredient name	<u>Schedule</u>
methanol	Restricted hazardous chemical [For spray painting if the substance contains more than 1% by volume]

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : Not determined.

New Zealand : All components are listed or exempted. **United States** : All components are active or exempted.

Section 16. Any other relevant information

History

Date of issue/Date of

: 30/06/2025

revision

Date of previous issue

: No previous validation

Version

Date of issue/Date of revision : 30/06/2025 23/24 Date of previous issue Version: 1 : No previous validation

Section 16. Any other relevant information

Key to abbreviations

: ADG = Australian Dangerous Goods

ADR = The European Agreement concerning the International Carriage of

Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available

RID = The Regulations concerning the International Carriage of Dangerous Goods

by Rail

SGG = Segregation Group

SUSMP = Standard Uniform Schedule of Medicine and Poisons

UN = United Nations

Procedure used to derive the classification

Classification	Justification
FLAMMABLE LIQUIDS - Category 2	Expert judgment
ACUTE TOXICITY (oral) - Category 3	Calculation method
ACUTE TOXICITY (dermal) - Category 3	Calculation method
ACUTE TOXICITY (inhalation) - Category 3	Calculation method
CARCINOGENICITY - Category 1	Calculation method
SPECIFIC TARGET ORGAN TOXICITY - SINGLE	Calculation method
EXPOSURE - Category 1	
SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1	Calculation method
LONG-TERM (CHRONIC) AQUATIC HAZARD - Category	Calculation method
1	

✓ Indicates information that has changed from previously issued version.

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Date of issue/Date of revision : 30/06/2025 Date of previous issue : No previous validation Version : 1 24/24