### SAFETY DATA SHEET



13C Sensitivity

### **Section 1. Identification**

Product identifier : 13C Sensitivity

**Part no.** : 9100071116, 190350616

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

Identified uses : Reagents and Standards for Analytical Chemistry Laboratory Use

NMR

860 ul (9100071116) 1x250ul (190350616)

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

F225FLAMMABLE LIQUIDS - Category 2H302ACUTE TOXICITY (oral) - Category 4H331ACUTE TOXICITY (inhalation) - Category 3H315SKIN CORROSION/IRRITATION - Category 2

H319 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A

H351 CARCINOGENICITY - Category 2

H373 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2

H412 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

#### **GHS label elements**

Hazard pictograms :







Signal word : DANGER

Hazard statements : F225 - Highly flammable liquid and vapour.

H302 - Harmful if swallowed. H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H331 - Toxic if inhaled.

H351 - Suspected of causing cancer.

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

H412 - Harmful 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.

P260 - Do not breathe vapour.

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### Section 2. Hazard(s) identification

: P314 - Get medical advice/attention if you feel unwell. Response

**Storage** : Not applicable.

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

national and international regulations.

Supplemental label elements

**Additional warning** 

phrases

: Not applicable.

Other hazards which do not : None known.

result in classification

### Section 3. Composition and ingredient information

Substance/mixture : Mixture

#### **CAS** number/other identifiers

Ingredient name	% (w/w)	CAS number
<b>Ø</b> H)chloroform	≥75 - ≤90	865-49-6
ethylbenzene	≥10 - ≤30	100-41-4

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.

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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Skin contact

: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: 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. Get medical attention. If necessary, call a poison center or 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

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### Section 4. First aid measures

#### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

Inhalation: Toxic if inhaled.Skin contact: Causes skin irritation.Ingestion: Harmful if swallowed.

#### Over-exposure signs/symptoms

**Eye contact**: Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation : No specific data.

**Skin contact**: Adverse symptoms may include the following:

irritation redness

Ingestion : No specific data.

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

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**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.

#### See toxicological information (Section 11)

### Section 5. Firefighting measures

#### **Extinguishing media**

Suitable extinguishing

media

: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

Unsuitable extinguishing

media

: Do not use water jet.

Specific hazards arising from the chemical

: Mighly 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 harmful 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 halogenated compounds

nalogenated compounds

carbonyl halides

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 : •3WE

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### 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**

Noid 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.

#### 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.

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### Section 8. Exposure controls and personal protection

#### **Control parameters**

#### Occupational exposure limits

Ingredient name	Exposure limits		
€2H)chloroform	Safe Work Australia (Australia, 10/2022). Absorbed through skin.		
	TWA: 10 mg/m³ 8 hours. TWA: 2 ppm 8 hours.		
ethylbenzene	Safe Work Australia (Australia, 10/2022).  STEL: 543 mg/m³ 15 minutes.  STEL: 125 ppm 15 minutes.  TWA: 434 mg/m³ 8 hours.  TWA: 100 ppm 8 hours.		

#### **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.

# 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.

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### 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 : Colourless.

: Pleasant. / Sweet. **Odour Odour threshold** : Not available. pН : Not available. : -64°C (-83.2°F) Melting point/freezing point Boiling point, initial boiling : 60.9°C (141.6°F)

point, and boiling range

Flash point : Closed cup: 15°C (59°F) [(Ethylbenzene)]

**Evaporation rate** : Not available. **Flammability** : Not applicable. : Not available. Lower and upper explosion limit/flammability limit

Vapour pressure

	Vapour Pressure at 20°C			Vapour pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
(ℤH)chloroform	159.01	21.2	-	-	-	-
ethylbenzene	9.3	1.2	-	-	-	-

Relative vapour density : Not available.

Relative density 1.5 **Density** : 1.5 g/cm<sup>3</sup>

Solubility(ies)

Media	Result
<b>w</b> ater	Insoluble

Miscible with water

Partition coefficient: n-

octanol/water

: Not applicable.

No.

**Auto-ignition temperature** 

Ingredient name	°C	<b>F</b>	Method
<b>e</b> thylbenzene	432.22	810	-
(2H)chloroform	>600	>1112	-

: Not available. **Decomposition temperature Viscosity** : Not available.

**Particle characteristics** 

: Not applicable. Median particle size

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### 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.

**Incompatible materials**: Reactive or incompatible with the following materials:

oxidising materials

Reactive or incompatible with the following materials: acids and moisture.

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	Species	Dose	Exposure
(ZH)chloroform	LD50 Dermal	Rabbit	>20 g/kg	-
	LD50 Oral	Rat	300 mg/kg	-
ethylbenzene	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-

#### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>e</b> thylbenzene	Eyes - Severe irritant Skin - Mild irritant	Rabbit Rabbit		500 mg 24 hours 15 mg	-

#### **Conclusion/Summary**

**Skin**: Repeated exposure may cause skin dryness or cracking.

**Sensitisation** 

Not available.

**Mutagenicity** 

Conclusion/Summary : Not available.

**Carcinogenicity** 

**Conclusion/Summary**: Not available.

**Reproductive toxicity** 

**Conclusion/Summary**: Not available.

**Teratogenicity** 

Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
	Category 2 Category 2	-	-

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### **Section 11. Toxicological information**

#### **Aspiration hazard**

Name	Result
<b>e</b> thylbenzene	ASPIRATION HAZARD - Category 1

Information on likely routes : Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

of exposure

Potential acute health effects

**Eye contact** : Causes serious eye irritation.

Inhalation: Toxic if inhaled.Skin contact: Causes skin irritation.Ingestion: Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation : No specific data.

**Skin contact**: Kaverse symptoms may include the following:

irritation redness

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

**General**: May cause damage to organs through prolonged or repeated exposure.

Carcinogenicity : Suspected of causing cancer. Risk of cancer depends on duration and level of

exposure.

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

#### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
<ul><li>  ✓ C Sensitivity (2H)chloroform ethylbenzene </li></ul>	555.6	N/A	N/A	7.6	N/A
	500	N/A	N/A	7.348	N/A
	3500	N/A	N/A	11	N/A

Other information : Adverse symptoms may include the following: jaundice, nausea or vomiting

### **Section 12. Ecological information**

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
√ZH)chloroform	Acute EC50 13.3 mg/l	Algae - Chlamydomonas reinhardtii - Exponential growth phase	72 hours
	Acute EC50 2.803 mg/l Fresh water	Crustaceans - Cypris	48 hours
	Acute LC50 29 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 13300 μg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Chronic EC10 3.61 mg/l	Algae - Chlamydomonas reinhardtii - Exponential growth phase	72 hours
	Chronic NOEC 1.8 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	21 days
ethylbenzene	Acute EC50 4900 μg/l Marine water	Algae - Skeletonema costatum	72 hours
	Acute EC50 7700 µg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 6.53 mg/l Marine water	Crustaceans - <i>Artemia sp.</i> - Nauplii	48 hours
	Acute EC50 2.93 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 4200 μg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

#### Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
<b>e</b> thylbenzene	ISO	70 to 80 % - Readily	y - 28 days	-	Activated sludge
Product/ingredient name	Aquatic half-life		Photolysis	<b>S</b>	Biodegradability
€thylbenzene					Readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
√2H)chloroform	1.97	690	High
ethylbenzene	3.6	-	Low

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: 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 sewers.

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### **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

6

**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 : All components are listed or exempted.

New Zealand : All components are listed or exempted.

United States : Not determined.

### Section 16. Any other relevant information

**History** 

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**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)

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# Section 16. Any other relevant information

N/A = Not available SUSMP = Standard Uniform Schedule of Medicine and Poisons UN = United Nations

#### Procedure used to derive the classification

Classification	Justification
► AMMABLE LIQUIDS - Category 2	On basis of test data
ACUTE TOXICITY (oral) - Category 4	Calculation method
ACUTE TOXICITY (inhalation) - Category 3	Calculation method
SKIN CORROSION/IRRITATION - Category 2	Calculation method
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A	Calculation method
CARCINOGENICITY - Category 2	Calculation method
SPECIFIC TARGET ORGAN TOXICITY - REPEATED	Calculation method
EXPOSURE - Category 2	
LONG-TERM (CHRONIC) AQUATIC HAZARD - Category	Calculation method
3	

**<sup>▼</sup>** Indicates information that has changed from previously issued version.

#### **Notice to reader**

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