

SAFETY DATA SHEET

New Zealand

Section 1. Identification

Product name

Conditioning solution; part of 'Qflex kit Folic

Acid, type 2'

Catalogue Number

29-3514-95

Other means of identification

Not available.

Product type

Liquid.

Identified uses

Analytical chemistry. Use in laboratories

Scientific research and development

Supplier

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New Zealand

Person who prepared the MSDS:

sds author@cytiva.com

Emergency telephone number (with hours of operation)

0800 733 893

(10am - 7pm)

Section 2. Hazards identification

HSNO Classification 8.2 - CORROSIVE TO DERMAL TISSUE - Category B

This material is classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001 and has been classified according to the Hazardous Substances (Classifications) Regulations 2001.

GHS label elements

Signal word Danger

Hazard statements Causes severe skin burns and eye damage.

Precautionary statements

Prevention Wear protective gloves. Wear eye or face protection. Wear protective clothing. Wash thoroughly

after handling.

Response Immediately call a POISON CENTER or doctor/physician. IF SWALLOWED: Rinse mouth. Do

NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF INHALED: Remove to fresh air and keep at rest in a position

comfortable for breathing.

Storage Store locked up.

Disposal Dispose of contents and container in accordance with all local, regional, national and international

Symbol

Other hazards which do not result in classification

None known.

Section 3. Composition/information on ingredients

Substance/mixture Mixture

Other means of identification Not available.

CAS number/other identifiers

CAS number Not applicable.

EC number Mixture.

Product code 29-3514-95

Ingredient name%CAS numbersodium hydroxide11310-73-2

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

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

Section 4. First aid measures

Description of necessary first aid measures

Inhalation Get medical attention immediately. 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.

Ingestion Get medical attention immediately. Wash out mouth with water. Remove dentures if any. Remove

victim to fresh air and keep at rest in a position comfortable for breathing. 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.

Skin contact Get medical attention immediately. Flush contaminated skin with plenty of 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

Eye contact Get medical attention immediately. 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.

Most important symptoms/effects, acute and delayed

Potential acute health effects

InhalationNo known significant effects or critical hazards.IngestionNo known significant effects or critical hazards.

Skin contact Causes severe burns.

Eye contact Causes serious eye damage.

Over-exposure signs/symptoms

Inhalation No specific data.

Ingestion Adverse symptoms may include the following:

stomach pains

Skin Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

Eyes Adverse symptoms may include the following:

pain watering redness

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

Specific treatments Not available

Notes to physician No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if

large quantities have been ingested or inhaled.

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 aloves.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable Use an extinguishing agent suitable for the surrounding fire.

Not suitable None known

chemical

Specific hazards arising from the In a fire or if heated, a pressure increase will occur and the container may burst.

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

metal oxide/oxides

Not available.

Hazchem code

Special precautions 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.

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.

Section 6. Accidental release measures

equipment and emergency

procedures

Personal precautions, protective 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. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective

equipment (see Section 8).

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

Small spill

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if watersoluble. 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.

Large spill

Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Put on appropriate personal protective equipment (see Section 8). 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. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse

Conditions for safe storage. including any incompatibilities Store between the following temperatures: 2 to 8°C (35.6 to 46.4°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and wellventilated area, away from incompatible materials (see Section 10) and food and drink. 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.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name sodium hydroxide

Exposure limits NZ HSWA 2015 (New Zealand, 11/2018).

WES-Ceiling: 2 mg/m³

Appropriate engineering controls

If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Article Number 29351495-1



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.

Respiratory protection

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected

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.

Eye 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

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.

Section 9. Physical and chemical properties

Appearance

Physical state Liquid. Colour Colourless. Odour Odourless. **Odour threshold** Not available. Not available. **Melting point** Not available. **Boiling point** 100°C (212°F) Flash point Not applicable **Burning rate** Not applicable. **Burning time** Not applicable **Evaporation rate** Not available. Flammability (solid, gas) Not available. Not available

Lower and upper explosive

(flammable) limits

Not available Vapour pressure Vapour density Not available. Relative density Not available. Solubility

Easily soluble in the following materials: cold water and hot water. Solubility in water Not available.

Partition coefficient: n-octanol/

water

Not available.

Auto-ignition temperature Not available. **Decomposition temperature** Not available SADT Not available. Viscosity Not available. Flow time (ISO 2431) Not available.

Aerosol product

Type of aerosol Not applicable. Heat of combustion Not available. Ignition distance Not applicable. **Enclosed space ignition - Time** Not applicable.

equivalent

Enclosed space ignition -

Deflagration density

Not applicable

Flame height Not applicable.
Flame duration Not applicable.

Section 10. Stability and reactivity

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 No specific data.

Incompatible materials No specific data.

Hazardous decomposition

products

Under normal conditions of storage and use, hazardous decomposition products should not be

produced.

Section 11. Toxicological information

Information on likely routes of exposure

InhalationNo known significant effects or critical hazards.IngestionNo known significant effects or critical hazards.

Skin contact Causes severe burns.

Eye contact Causes serious eye damage.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation No specific data.

Ingestion Adverse symptoms may include the following:

stomach pains

Skin contact Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

Eye contact Adverse symptoms may include the following:

pain watering redness

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

Acute toxicity

Not available.

Irritation/Corrosion

Not available.

Sensitisation

Not available.

Potential chronic health effects

General No known significant effects or critical hazards. Inhalation No known significant effects or critical hazards. Ingestion No known significant effects or critical hazards. Skin contact No known significant effects or critical hazards. Eye contact No known significant effects or critical hazards. Carcinogenicity No known significant effects or critical hazards. Mutagenicity No known significant effects or critical hazards. **Teratogenicity** No known significant effects or critical hazards. **Developmental effects** No known significant effects or critical hazards. Fertility effects No known significant effects or critical hazards.

Chronic toxicity

Not available.

Carcinogenicity

Not available.



Mutagenicity

Not available.

Teratogenicity

Not available.

Reproductive toxicity

Not available.

Specific target organ toxicity

Not available.

Aspiration hazard

Not available.

Numerical measures of toxicity

Acute toxicity estimates

 Route
 ATE value

 Oral
 50000 mg/kg

 Dermal
 110000 mg/kg

Section 12. Ecological information

Ecotoxicity No known significant effects or critical hazards.

Aquatic and terrestrial toxicity

Product/ingredient nameResultSpeciesExposuresodium hydroxideAcute LC50 125 ppm Fresh waterFish - Gambusia affinis - Adult96 hours

Persistence/degradability

Not available

Bioaccumulative potential

Not available.

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. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*
New Zealand Class	Not regulated.	-	-	-
		No.		
IATA Class	Not regulated.	-	-	-
		-		
		No.		
IMDG Class	Not regulated.	-	-	-
		No.		

PG* : Packing group



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 to Annex II of Marpol and the IBC

Not available.

Section 15. Regulatory information

HSNO Approval Number HSR002596

HSNO Group Standard Laboratory Chemicals and Reagent Kits

HSNO Classification 8.2 - CORROSIVE TO DERMAL TISSUE - Category B

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Code

Montreal Protocol (Annexes A, B, C, E)

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

New ZealandNot determined.AustraliaNot determined.EuropeNot determined.

United States All components are listed or exempted.

Canada inventoryNot determined.ChinaNot determined.

Japan inventory (ENCS): Not determined.

Japan inventory (ISHL): Not determined.

Malaysia Not determined

Section 16. Other information

History

Date of printing1 April 2020Date of issue/ Date of revision01 April 2020Date of previous issue2/5/2019Version2.01

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)

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

UN = United Nations

References Not available.

Indicates information that has changed from previously issued version.

Notice to reader

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