



SAFETY DATA SHEET

1. Identification

Product identifier	Sani-Cide EX3 Concentrate (EU only)
Other means of identification	
Part Number	ECC-SCIDEX3C/3, (Formula: ELB-SCIDEX3C/3)
Recommended use of the chemical and restrictions on use	
Recommended use	Cleaner, Disinfectant.
Restrictions on use	None known.
Details of manufacturer or importer	
Supplier	
Company name	Boeing Distribution Australia Pty Ltd
Address	20-22 Lindaway Place Tullamarine, Vic 3043 Australia
Telephone	61-3-9339-3000
Fax	61-3-9338-9773
Email	prc@boeing.com
Manufacturer	
Company	Celeste Industries Corporation
Address	8007 Industrial Park Rd Easton, Maryland 21601 (USA)
Telephone	+1-410-822-5775
Email	info@celestecorp.com
In Case of Emergency	CHEMTREC (24 hours) within USA and CANADA 1-800-424-9300 Outside USA and Canada (collect call accepted) 1-703-527-3883

2. Hazard(s) identification

Classification of the hazardous chemical

Physical hazards	Corrosive to metals	Category 1
Health hazards	Serious eye damage/eye irritation	Category 1
	Sensitization, skin	Category 1
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 1
	Hazardous to the aquatic environment, long-term hazard	Category 3

Label elements, including precautionary statements

Hazard symbol(s)



Corrosion Exclamation mark Environment

Signal word

Danger

Hazard statement(s)

May be corrosive to metals. May cause an allergic skin reaction. Causes serious eye damage. Very toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

Prevention

Avoid release to the environment. Keep only in original container. Avoid breathing mist/vapours. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.

Response	IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE or doctor/physician. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. Absorb spillage to prevent material damage.
Storage	Store in corrosive resistant container with a resistant inner liner.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Supplemental information	16.2 % of the mixture consists of component(s) of unknown acute dermal toxicity. 20.08 % of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 24.08 % of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.
Other hazards which do not result in classification	This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.

3. Composition/information on ingredients

Identity of chemical ingredients	CAS number and other unique identifiers	Concentration of ingredients
Alcohols, C9-11, ethoxylated	68439-46-3	5 - 10
Sodium octane-1-sulphonate monohydrate	5324-84-5	5 - 10
1 -phenoxy-2-propanol	770-35-4	1 - 5
1-octylpyrrolidin-2-one	2687-94-7	1 - 5
2-Bromo-2-nitropropane-1,3-diol	52-51-7	1 - 5
2-Hydroxy-1,2,3-propanetricarboxylic acid	77-92-9	1 - 5
4-dodecan-3-ylbenzenesulfonic acid	68584-22-5	1 - 5
L(+)-lactic Acid	79-33-4	1 - 5
Octan-1-ol, ethoxylated	27252-75-1	1 - 5
1,3-dibutyl-2-thiourea	109-46-6	0.1 - 1
Other components below reportable levels		57.31

4. First-aid measures

Description of necessary first aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Personal protection for first-aid responders	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.
Symptoms caused by exposure	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause an allergic skin reaction. Dermatitis. Rash.
Medical attention and special treatment	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for fire fighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Hazchem code	2X
General fire hazards	No unusual fire or explosion hazards noted.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapours. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
For emergency responders	Keep unnecessary personnel away. Avoid breathing mist/vapours. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS.

Environmental precautions Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

Methods and materials for containment and cleaning up This product is miscible in water. Should not be released into the environment. Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb spillage to prevent material damage. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13.

7. Handling and storage

Precautions for safe handling Do not get this material in contact with eyes. Avoid breathing mist/vapours. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store in a cool, dry place out of direct sunlight. Store in corrosive resistant container with a resistant inner liner. Store in tightly closed container. Keep only in the original container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls and personal protection

Control parameters Follow standard monitoring procedures.

Occupational exposure limits

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Components	Type	Value	Form
2-Hydroxy-1,2,3-propanetricarboxylic acid (CAS 77-92-9)	TWA	2 mg/m ³	Inhalable fraction.

Biological limit values No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

Individual protection measures, for example personal protective equipment (PPE)

Eye/face protection Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Other

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Hygiene measures Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

Appearance

Physical state Liquid.

Form Liquid.

Colour Light yellow.

Odour Not established.

Odour threshold Not available.

pH 1.5 - 2

Melting point/freezing point 0 °C (32 °F) estimated

Initial boiling point and boiling range 100 °C (212 °F) estimated

Flash point Non-flammable.

Evaporation rate Property has not been measured.

Flammability (solid, gas) Non-flammable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Non-flammable.

Explosive limit – upper (%) Non-flammable.

Vapour pressure Property has not been measured.

Vapour density Property has not been measured.

Relative density 0.9 - 1.1

Solubility(ies)

Solubility (water) Soluble.

Partition coefficient (n-octanol/water) Not applicable.

Auto-ignition temperature Not applicable.

Decomposition temperature Not applicable.

Viscosity Not available.

Other physical and chemical parameters

Explosive properties Not explosive.

Kinematic viscosity Property has not been measured.

Oxidising properties Not oxidising.

10. Stability and reactivity

Reactivity May be corrosive to metals.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous reactions No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials. Do not mix with other chemicals.

Incompatible materials Strong oxidising agents. Metals.

Hazardous decomposition products Carbon oxides.

11. Toxicological information

Information on possible routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contact Causes mild skin irritation. May cause an allergic skin reaction.

Eye contact Causes serious eye damage.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to exposure Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause an allergic skin reaction. Dermatitis. Rash.

Acute toxicity Not expected to be acutely toxic.

Product	Species	Test Results
Sani-Cide EX3 Concentrate (EU only)		
Acute		
Dermal		
LD50	Rat	> 5000 mg/kg
Inhalation		
<i>Aerosol</i>		
LC50	Rat	> 2 mg/l, 4 Hours No mortality. No toxicological impacts.
Oral		
ATEmix		2700 mg/kg
Components	Species	Test Results
1 -phenoxy-2-propanol (CAS 770-35-4)		
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg, 24 Hours
Inhalation		
LC50	-	> 5400 mg/m ³ , 4 Hours
Oral		
LD50	Rat	> 2000 mg/kg
1-octylpyrrolidin-2-one (CAS 2687-94-7)		
Acute		
Oral		
LD50	Rat	2.1 g/kg
2-Bromo-2-nitropropane-1,3-diol (CAS 52-51-7)		
Acute		
Dermal		
LD50	Rat	1600 mg/kg
Inhalation		
LC50	-	> 5 mg/l, 6 Hours
Oral		
LD50	Rat	310 mg/kg
2-Hydroxy-1,2,3-propanetricarboxylic acid (CAS 77-92-9)		
Acute		
Dermal		
LD50	Rat	> 2000 mg/kg, 24 Hours
Oral		
LD50	Rat	6700 mg/kg
4-dodecan-3-ylbenzenesulfonic acid (CAS 68584-22-5)		
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg, 24 Hours
Oral		
LD50	Rat	> 2000 mg/kg
Alcohols, C9-11, ethoxylated (CAS 68439-46-3)		
Acute		
Dermal		
LD50	Rabbit	2000 mg/kg, 24 Hours

Components	Species	Test Results
Inhalation <i>Vapour</i> LC50	Rat	> 100 mg/m ³ , 6 Hours
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation. Primary Irritation Index (P.I.I.): 1.7 - 2.0 @ 24, 48 & 72 hours; reversible	
Corrosivity Sani-Cide EX3 Concentrate (EU only)	EPA P326 Result: Mild skin irritation. Species: Rabbit Observation Period: 14 days	
Serious eye damage/irritation	Causes serious eye damage. Corneal opacity ≥1, not fully reversed in 21 days in at least one animal.	
Eye Sani-Cide EX3 Concentrate (EU only)	EPA P324 Result: Irreversible effects on the eye. Species: Rabbit Observation Period: 21 days	
Respiratory or skin sensitisation		
Respiratory sensitisation	Not a respiratory sensitiser.	
Skin sensitisation	May cause an allergic skin reaction.	
Skin Sensitisation Sani-Cide EX3 Concentrate (EU only)	EPA P327 Result: Sensitiser. Species: Mouse	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	Not classifiable as to carcinogenicity to humans.	
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.	
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not an aspiration hazard.	
Chronic effects	Prolonged inhalation may be harmful.	

12. Ecological information

Ecotoxicity Very toxic to aquatic life. Harmful to aquatic life with long lasting effects. Because of the low pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.

Components	Species	Test Results
4-dodecan-3-ylbenzenesulfonic acid (CAS 68584-22-5)		
Aquatic <i>Acute</i> Crustacea	EC50	Water flea (Ceriodaphnia dubia) >= 4.66 - <= 6.83 mg/l, 48 hours
Alcohols, C9-11, ethoxylated (CAS 68439-46-3)		
Aquatic <i>Acute</i> Crustacea	EC50	Water flea (Daphnia magna) >= 2.9 - <= 8.5 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas) >= 6 - <= 12 mg/l, 96 hours
L(+)-lactic Acid (CAS 79-33-4)		
Aquatic <i>Acute</i> Crustacea	EC50	Water flea (Daphnia magna) >= 180 - <= 320 mg/l, 48 hours
Persistence and degradability	No data is available on the degradability of any ingredients in the mixture.	

Bioaccumulative potential

Partition coefficient

n-octanol / water (log K_{ow})

2-Hydroxy-1,2,3-propanetricarboxylic acid -1.64

Mobility in soil This product is miscible in water.

Other adverse effects None known.

13. Disposal considerations

Disposal methods Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Residual waste Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

ADG

UN number 1760
UN proper shipping name CORROSIVE LIQUID, N.O.S. (Sodium octane-1-sulphonate monohydrate, L(+)-lactic Acid)
Transport hazard class(es)
Class 8
Subsidiary risk -
Packing group III
Environmental hazards Yes
Hazchem code 2X
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

RID

UN number 1760
UN proper shipping name CORROSIVE LIQUID, N.O.S. (Sodium octane-1-sulphonate monohydrate, L(+)-lactic Acid)
Transport hazard class(es)
Class 8
Subsidiary risk -
Label(s) 8
Packing group III
Environmental hazards Yes
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IATA

UN number 1760
UN proper shipping name Corrosive liquid, n.o.s. (Sodium octane-1-sulphonate monohydrate, L(+)-lactic Acid)
Transport hazard class(es)
Class 8
Subsidiary risk -
Packing group III
Environmental hazards Yes
ERG Code 8L
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo aircraft Allowed with restrictions.

Cargo aircraft only Allowed with restrictions.

IMDG

UN number 1760
UN proper shipping name CORROSIVE LIQUID, N.O.S. (Sodium octane-1-sulphonate monohydrate, L(+)-lactic Acid), MARINE POLLUTANT
Transport hazard class(es)
Class 8
Subsidiary risk -
Packing group III

Environmental hazards

Marine pollutant

Yes

EmS

F-A, S-B

Special precautions for user

Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

This product is not intended to be transported in bulk.

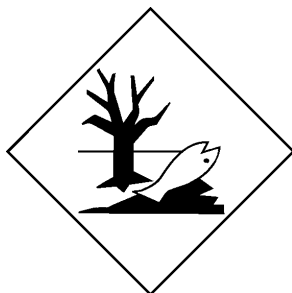
ADG



IATA; IMDG; RID



Marine pollutant



15. Regulatory information

Safety, health and environmental regulations

National regulations

This Safety Data Sheet was prepared in accordance with Australia Model Code of Practice for the preparation of Safety Data Sheets for Hazardous Chemicals.

Australia Medicines & Poisons Appendix A

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix B

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix D

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix E

1-octylpyrrolidin-2-one (CAS 2687-94-7)

Australia Medicines & Poisons Appendix F

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix G

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix H

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix I

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix J

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix K

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 10

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 2

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 3

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 4

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 5

1-octylpyrrolidin-2-one (CAS 2687-94-7)

Australia Medicines & Poisons Schedule 6

1-octylpyrrolidin-2-one (CAS 2687-94-7)

Australia Medicines & Poisons Schedule 7

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 8

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 9

Poisons schedule number not allocated.

High Volume Industrial Chemicals (HVIC)

2-Hydroxy-1,2,3-propanetricarboxylic acid (CAS 77-92-9) 1000 - 9999 TONNES See the regulation for additional information.

4-dodecan-3-ylbenzenesulfonic acid (CAS 68584-22-5) 1000 - 9999 TONNES See the regulation for additional information.

Importation of Ozone Deleting Substances (Customs(Prohibited imports) Regulations 1956, Schedule 10)

Not listed.

National Pollutant Inventory (NPI) substance reporting list

Not listed.

Prohibited Carcinogenic Substances

Not regulated.

Prohibited Substances (National Model Regulation for the control of Workplace Hazardous Substances, Schedule 2 NOHSC:1005 (1994) as amended)

Not listed.

Restricted Importation of Organochlorine Chemicals (Customs(Prohibited Imports) Regulations 1956, Schedule 9)

Not listed.

Restricted Carcinogenic Substances

Not regulated.

International regulations**Stockholm Convention**

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto Protocol

Not applicable.

Montreal Protocol

Not applicable.

Basel Convention

Not applicable.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes

Country(s) or region	Inventory name	On inventory (yes/no)*
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information

Issue date	02-December-2022
Key abbreviations or acronyms used	AICIS: Australian Inventory of Industrial Chemicals.
References	ECHA registered substances database
Disclaimer	The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Celeste Industries cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use.