

SAFETY DATA SHEET

1. Identification

Product identifier: WETCIT

Product code: 030-F-1-B

Cayman Enterprise City, HSBC House
68 West Bay Road
PO Box 10315
Grand Cayman
KY1-1003 Cayman Islands

Telephone Number: +1 (559) 442-4996

Email: SDS-NA@oroagri.com

Emergency Telephone Number: Incident Spill, Leak, Fire, Exposure or Accident
Call CHEMTREC Day or Night

Within New Zealand:
+(64)-98010034

Outside New Zealand:
+1 (703) 741-5970

Recommended use and Limitations on use

Recommended use Adjuvant.

2. Hazards identification

GHS classification

Physical Hazards

Not classified

Health hazards

Skin corrosion/irritation (Category 2)
Serious eye damage/eye irritation (Category 2)
Reproductive toxicity (Category 2)

Environmental hazards

Hazardous to the aquatic environment, acute hazard (Category 2)
Hazardous to the aquatic environment, long-term hazard (Category 3)

Label elements

Symbols



Signal word

Warning

Hazard statement

Causes skin irritation. Causes serious eye irritation. Suspected of damaging fertility or the unborn child. Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Precautionary statement

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing mist or vapor. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

Response

IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. 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 eye irritation persists: Get medical advice/attention. IF exposed or concerned: Get medical advice/attention.

Storage

Store locked up.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

3. Composition/information on ingredients

Substance or mixture Chemical property	Mixture	CAS Number	Concentration (%)
Proprietary Mixture ¹			
Alcohol, C11-15-secondary, ethoxylated ²		84133-50-6	5-10
Orange, sweet, ext.		8028-48-6	5-10

Composition comments

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

¹Component CAS numbers and exact concentrations have been withheld as a trade secret.

²CAS RN 84133-50-6 is equivalent to CAS RN 68131-40-8.

4. First-aid measures

Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact

Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

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. If eye irritation persists: Get medical advice/attention.

Ingestion

Rinse mouth. Get medical attention if symptoms occur.

Potential delayed effects

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.

Personal protection for first-aid responders

If exposed or concerned: get medical attention/advice. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

Notes to physician

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

5. Firefighting measures

Extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

Extinguishing media to avoid

Do not use water jet as an extinguisher, as this will spread the fire.

HAZCHEM Code Number

None.

Specific hazards during firefighting

During fire, gases hazardous to health may be formed.

Special firefighting procedures

Move containers from fire area if you can do so without risk.

Protection of firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Hazards from combustion products

Carbon oxides. Sulphur oxides. Sodium oxides.

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**

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. Be aware of potential for surfaces to become slippery.

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.

Spill cleanup methods

Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. 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 of the SDS.

7. Handling and storage**Handling****Precautions**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with eyes, skin, and clothing. Avoid breathing mist or vapor. Pregnant or breastfeeding women must not handle this product. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

Safe handling advice

Avoid prolonged exposure. Should be handled in closed systems, if possible. Use personal protection recommended in Section 8 of the SDS.

Prevention of fire and explosion

No specific recommendations.

Local and general ventilation

Provide adequate ventilation.

Storage

Suitable storage conditions

Store locked up. Store away from incompatible materials (see Section 10 of the SDS).

Incompatible materials

Strong oxidizing agents. For further information, please refer to section 10 of the SDS.

Safe packaging materials

Store in original tightly closed container.

8. Exposure controls/personal protection

Exposure limits

New Zealand. WES. (Workplace Exposure Standards)

Components	Type	Value
Sodium Hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m ³
Sodium Tetraborate Decahydrate (CAS 1303-96-4)	TWA	5 mg/m ³

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Sodium Hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m ³	
Sodium Tetraborate Decahydrate (CAS 1303-96-4)	STEL	6 mg/m ³	Inhalable fraction.
	TWA	2 mg/m ³	Inhalable fraction.

UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value
Sodium Hydroxide (CAS 1310-73-2)	STEL	2 mg/m ³
Sodium Tetraborate Decahydrate (CAS 1303-96-4)	TWA	5 mg/m ³

Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)

Components	Type	Value
Sodium Hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m ³
Sodium Tetraborate Decahydrate (CAS 1303-96-4)	TWA	5 mg/m ³

Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)

Components	Type	Value
Sodium Tetraborate Decahydrate (CAS 1303-96-4)	TWA	5 mg/m ³

Biological limit values

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

Engineering controls

Good general ventilation (typically 10 air changes per hour) 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 easy access to water supply and eye wash facilities.

Personal protective equipment

Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Chemical respirator with organic vapor cartridge and full facepiece.

Hand protection

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

Skin protection

Wear suitable protective clothing. Use of an impervious apron is recommended.

Eye/face protection

Wear safety glasses with side shields (or goggles). Wear face shield if there is a risk of splashes.

Radioactive or thermal hazards

Follow standard monitoring procedures.

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 chemical properties

Appearance

Physical state Liquid.

Form Liquid.

Color Green.

Odor Citrus

Odor threshold Not relevant.

pH 6.8 - 7.8

pH temperature 68°F (20 °C)

Melting point/freezing point Not relevant.

Boiling point, initial boiling point and boiling range Not relevant.

Flash point > 212.0 °F (> 100.0 °C)

Auto-ignition temperature Not relevant.

Flammability (solid, gas) Not applicable.

Flammability limit - lower (%) Not relevant.

Flammability limit - lower (%) temperature Not relevant.

Flammability limit - upper (%) Not relevant.

Flammability limit - upper (%) temperature Not relevant.

Explosive limit - lower (%) Not relevant.

Explosive limit - lower (%) temperature Not relevant.

Explosive limit - upper (%) Not relevant.

Explosive limit - upper (%) temperature Not relevant.

Vapor pressure	Not relevant.
Vapor density	Not relevant.
Evaporation rate	Not relevant.
Relative density	1.0 - 1.1 (Water = 1)
Relative density temperature	68 °F (20 °C)
Density	Not available.
Solubility(ies)	
Solubility (water)	Not relevant.
Partition coefficient (n-octanol/water)	Not relevant.
Decomposition temperature	Not relevant.
Bulk density	Not relevant.
Viscosity	80 - 130 mpa-s
Viscosity temperature	68°F (20 °C)
Other data	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
VOC (Weight %)	Not relevant.

10. Stability and reactivity

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

Stability

Material is stable under normal conditions.

Conditions to avoid

Contact with incompatible materials.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

Thermal decomposition of this product can generate carbon monoxide and carbon dioxide. Sulphur oxides. Sodium oxides.

Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

11. Toxicological information

Information on likely routes of exposure

Ingestion

May cause discomfort if swallowed.

Inhalation

Prolonged inhalation may be harmful.

Skin contact

Causes skin irritation.

WETCIT	OECD 404
	Result: Irritating
	Species: Rabbit
	Severity: Slight

Eye contact

Causes serious eye irritation.

WETCIT OECD 405
 Result: Irritating
 Species: Rabbit

Acute toxicity

Not expected to be acutely toxic.

Product	Species	Test Results
WETCIT (CAS Mixture)		
Acute		
<i>Dermal</i>		
LD50	Rat	> 2000 mg/kg, (OECD 402)
<i>Inhalation</i>		
LD50	Rat	> 2.13 mg/l, (OECD 403)
<i>Oral</i>		
LD50	Rat	> 2000 mg/kg, (OECD 425)

Routes of exposure

Inhalation. Skin contact. Eye contact.

Eye contact

WETCIT OECD 405
 Result: Irritating
 Species: Rabbit

Skin contact

WETCIT OECD 404
 Result: Irritating
 Species: Rabbit
 Severity: Slight

Symptoms

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory sensitizer

Not a respiratory sensitizer.

Skin sensitizer

This product is not expected to cause skin sensitization.

Sensitization

WETCIT OECD 406
 Result: Non-sensitizing
 Species: Guinea pig

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Toxic to reproduction

Suspected of damaging fertility or the unborn child.

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.

Relevant negative data

Not available.

12. Ecological information

Ecotoxicological data

Product		Species	Test Results
WETCIT			
Aquatic			
<i>Acute</i>			
Algae	ErC50	Pseudokirchnerella subcapitata	7.6 mg/l, 72 hours
	IC50	Pseudokirchneriella subcapitata	6.21 mg/l, 72 hours (yield)
	LOEC	Pseudokirchnerella subcapitata	5.93 mg/l, 72 hours
	NOEC	Pseudokirchnerella subcapitata	2.32 mg/l, 72 hours
Crustacea	EC50	Daphnia	11 mg/l, 48 hours
Fish	LC50	Zebrafish (Danio rerio)	18.7 mg/l, 96 hours

Ecotoxicity

Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulation

No data is available on the degradability of this product.

Partition coefficient n-octanol/water (log Kow)

Not available.

Bioconcentration factor (BCF)

Not available.

Mobility

No data available for this product.

Other hazardous effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal methods/information

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.

Special precautions

Dispose in accordance with all applicable regulations.

14. Transport information

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

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

Not applicable

15. Regulatory Information

Applicable regulations

Additional information is given in the Safety Data Sheet.

New Zealand Inventory of Chemicals (NZIoC): Registration status

Alcohol, C11-15-secondary, ethoxylated (CAS 84133-50-6)	HSNO Approved
Orange, sweet, ext. (CAS 8028-48-6)	May be used as a single component chemical under an appropriate group standard
Benzenesulfonic acid, C10-16-alkyl derives (CAS 68584-22-5)	HSNO Approved
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts (CAS 68439-57-6)	HSNO Approved
Sodium Tetraborate Decahydrate (CAS 1303-96-4)	HSNO Approved

16. Other information

References

EPA: AQUIRE database

HSDB® - Hazardous Substances Data Bank

IARC Monographs. Overall Evaluation of Carcinogenicity

ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices National Toxicology Program (NTP) Report on Carcinogens

Issued by

Not applicable

Prepared by

Not available

Disclaimer

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