

1. IDENTIFICATION OF SUBSTANCE/MIXTURE AND COMPANY

1.1 Product identifier

TCL Strength 0-0-15

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

Recommended uses Fertiliser. For professional use only.

Uses advised against Consumer use

1.3 Details of the supplier of the safety data sheet

Terralift Ireland Ltd, UK Office: PO Box 934, Stockport, SK5 9BP, United Kingdom

Tel: +44(0)1778380005 Fax: +44(0)1778348835 Email: admin@terralift.eu

1.4 Emergency telephone number

Tel: +44(0)1778380005

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

Mixture

Regulation (EC) No. 1272/2008: None

2.2 Label elements

Pictogram(s) None

Signal word: None

Hazard statements: None

Precautionary statements: None required. However, in the interest of good health and safety practices, the precautionary statement "wear protective gloves and goggles" is included.

Other hazards: None

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Mixtures

Ingredients	EC-No	CAS number	REACH registration	Classification according to Regulation (EC). 1272/2008 (CLP)	Weight %
Caustic Potash	215-181-3	1310-58-3	01-2119487136-33	Met. Corr. 1 (H290) Acute Tox. 4 (H302) Skin Corr. 1A (H314)	1-5
Citric acid monohydrate	5949-29-1	201-069-1	01-2119457026-42	Eye Irrit. 2 (H319)	1-5
Other ingredients	-	-	-	Not classified	to 100

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Show this SDS to the doctor in attendance.

Inhalation

Remove to fresh air and seek medical aid.

Skin Contact:

Wash with water and neutral soap. Remove and wash contaminated clothing.

Eye Contact:

Irrigate with water thoroughly and seek medical advice.

Ingestion:

Rinse out mouth with plenty of water and seek medical aid immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms

None under normal processing

4.3 Indication of any immediate medical attention and special treatment needed

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use water, water spray, dry powder, foam or carbon dioxide.

Unsuitable extinguishing media

High volume water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products:

May produce fumes if heated.

5.3 Advice for fire fighters

Coordinate fire extinguishing measures to fire in surrounding area.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions:

Ensure adequate ventilation. Wear personal protective equipment.

Evacuate personnel to safe areas.

For emergency responders

Use personal protection recommended in section 8.

6.2 Environmental precautions

Prevent material or washings entering water courses

6.3 Methods and material for containment and cleaning up

Methods for containment

Sweep up spills carefully to minimise spread of material. If necessary use absorbent materials to contain spill.

Methods for clean-up

Transfer to heavy-duty plastic bags or drums and keep safe for disposal. If material is uncontaminated reuse as recommended for product. Spilled material may cause surfaces to become slippery.

6.4 Reference to other sections

Section 8 and 13

7. HANDLING & STORAGE

7.1 Precautions for safe handling

General occupational hygiene advice

Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. When using, do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures/storage conditions

Store in original containers, tightly closed in a secure, well ventilated area.

Packaging materials:

10 litre plastic drum

Other advice

For quality reasons do not allow to freeze, keep away from heat sources and out of direct sunlight. Shelf life 2 years.

7.3 Specific end use(s)

Specific uses

Fertiliser. Follow label instructions.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Caustic Potash	
Belgium – 8 Hr TWA	2 mg/m ³
Denmark	2 mg/m ³
Finland	2 mg/m ³
Ireland	2 mg/m ³
Norway	2 mg/m ³
Portugal	2 mg/m ³
Spain OEL – TWA	2 mg/m ³
Switzerland	2 mg/m ³
UK oes/mel	2 mg/m ³

Citric acid	
Belgium – 8 Hr TWA	No values assigned
Denmark	No values assigned
Finland	No values assigned
Ireland	No values assigned
Norway	No values assigned
Portugal	No values assigned
Spain OEL – TWA	No values assigned
Switzerland	No values assigned
UK oes/mel	No values assigned

Personal protective equipment

Eye / face protection:	Safety goggles.
Skin and body protection:	No special protective equipment required. Suitable work wear recommended.
Respiratory protection:	Wear approved mask where spray mist may be contacted.
Hand protection:	Neoprene gloves.
Work / Hygienic practices:	Wash hands before eating, drinking or smoking.
Environmental exposure controls	Local authorities should be advised if significant spillages cannot be contained. Do not allow into any sewer, on the ground or into any body of water.

9. PHYSICAL & CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Light brown liquid
Odour:	Slight odour
pH:	6.0-6.2
Melting point/freezing point	No data available
Boiling point/range	No data available
Flash point:	Not applicable
Evaporation rate	Not applicable
Flammability (solid, gas):	Non-flammable
Vapour pressure:	Not applicable
Vapour density	Not applicable
Specific gravity:	1.26kg/l
Water solubility:	Miscible
Solubility(ies)	No data available
Partition coefficient	Not applicable
Autoignition temperature	Not applicable
Decomposition temperature	No data available
Explosive properties	Does not present explosion hazard (based on data of ingredients)
Oxidising properties:	No data available

9.2 Other information

Not applicable

10. STABILITY & REACTIVITY

10.1 Reactivity

Not reactive.

10.2 Chemical stability

Stable under normal conditions

10.3 Possibility of hazardous reactions

None under normal processing.

10.4 Conditions to avoid

Extremes of temperature

10.5 Incompatible materials

Strong oxidisers, alkalis

10.6 Hazardous decomposition products

Carbon dioxide, carbon monoxide and other undetermined by-products of organic combustion.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Information on the Likely Routes of Exposure (inhalation, ingestion, skin and eye contact):

In case of ingestion: May cause nausea or irritation to digestive system.
In case of skin contact: May cause mild skin irritation.
In case of inhalation: May cause irritation of the respiratory tract.
In case of eye contact: May cause irritation to the eyes

Symptoms related to the physical, chemical and toxicological characteristics:

No information available

Acute toxicity

ATEmix (oral) >2000 mg/kg (calculated)

Ingredients	LD50 Oral	LD50 Dermal	LC50 Inhalation
Caustic Potash	333 mg/kg (rat)	No data	No data
Citric acid monohydrate	5400 mg/kg (mouse)	>2000 mg/kg	No data

Serious eye damage/eye irritation No information available
Respiratory or skin sensitisation No information available
Germ cell mutagenicity No information available
Carcinogenicity No information available
Reproductive toxicity No information available
STOT-single exposure No information available
STOT-repeated exposure No information available
Aspiration hazard No information available

Absence of specific data

No test data is available for the mixture as a whole. Data on ingredient substances has been provided where relevant.

12. ECOLOGICAL INFORMATION

According to the data on the components, this product does not have any known adverse effects on the aquatic organisms tested according to the classification criteria for mixtures.

12.1 Toxicity

Ecotoxicity: Do not allow product to enter the environment uncontrolled.

Ingredients	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Caustic Potash	No data	Fish LC50 (48hr) 80 mg/l	No data	Daphnia Magna EC50 24h 30-1000 mg/l
Citric acid monohydrate	Algae NOEC 8d mat. (nominal) based on cell density 425 mg/l	Fish LC50 (48hr) 440 mg/l	No data	Daphnia Magna EC50 24h 1535 mg/l

Unlikely to accumulate in the environment (based on ingredient properties)

12.3 Bio accumulative potential

Low potential (based on ingredient properties)

12.4 Mobility in soil

Predominantly soluble (based on ingredient properties)

12.5 Results of PBT and vPvB assessment

No information available

12.6 Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product / packaging disposal

Dispose of waste and packaging through a waste disposal contractor in accordance with local laws.

14. TRANSPORT INFORMATION

14.1 UN-No:	Not regulated
14.2 Proper shipping name	Not regulated
14.3 Hazard class	Not regulated
14.4 Hazard group	Not regulated
14.5 Packing group	Not regulated
14.6 Marine pollutant	Not regulated
14.7 Environmental hazards	Not regulated
14.8 Special provisions for user	None

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for the mixture.

16. OTHER INFORMATION

Abbreviations and acronyms used in the safety data sheet

ATE: Acute Toxicity Estimate

CAS: Chemical Abstracts Service (division of the American Chemical Society)

CLP: EU-GHS; Classification, Labelling and Packaging

EC No: European Community number

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

OEL: Occupational Exposure Limit

STEL: Short-term exposure limit

TWA: Time Weighted Average

Key literature references

EC Regulation 1907/2006 (Reach), Regulation EU No. 2015/830, Regulation (EC) No 1272/2008.

Classification procedure

- Calculation method
- Expert judgment and weight of evidence determination

Issue date

13-Jan-2023

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information given in this publication should be considered a guide only, and not a warranty or representation for which we assume a legal responsibility. It is the responsibility of the user to determine the accuracy and applicability of such information and the suitability of any product for its own particular purpose. The buyer and user assume all risk and liability of storage conditions or locally applicable laws or government regulations.