Provifrost KA ECO

Potassium acetate

Safety Data Sheet according to Regulation (EC) No. 453/2010

Date of issue: 17/01/2013 Revision date: 02/04/2015 Supersedes: 08/10/2013

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form	:	Substance
Trade name	:	Provifrost KA ECO
Chemical name	:	Potassium acetate
IUPAC name	:	Potassium acetate
EC/EINECS/ELINS	:	204-822-2
CAS	:	127-08-2
REACH registration No	:	01-2119486975-16
Synonyms	:	50 % aqueous potassium acetate with triazole free eco friendly corrosion inhibitor package

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

1.2.1. Relevant identified uses

Main use category	:	Industrial use,Professional use
Use of the substance/mixture	:	De-icing product

Title	Use descriptors
Non-reactive additive (catalyst)	SU3, SU10, SU12, PC32, PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC13, PROC14, PROC15, PROC21, PROC24, AC1, AC2, AC3, ERC1, ERC2, ERC3, ERC5, ERC6a, ERC6c, ERC10a, ERC11a
De-icing product	SU0, SU3, SU8, SU10, PC4, PROC1, PROC3, PROC7, PROC8a, PROC11, ERC1, ERC2

Full text of use descriptors: see section 16

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Proviron Industries N.V.
Zone 2 - G. Gilliotstraat 60
B-2620 Hemiksem - Belgium
T +32 3 870 88 20 - F +32 3 877 23 33
info@proviron.com - www.proviron.com

1.4. Emergency telephone number

Emergency number : +32 3 870 88 20 (08:00-16:30 GMT+1)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [EU-GHS/CLP]

Not classified

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [EU-GHS/CLP]

No labelling required

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substance

Name	:	Provifrost KA ECO
CAS	:	127-08-2

EC/EINECS/ELINS : 204-822-2

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Water	(CAS) 7732-18-5 (EC/EINECS/ELINS) 231-791-2	50	Not classified
Potassium acetate	(CAS) 127-08-2 (EC/EINECS/ELINS) 204-822-2	50	Not classified

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [EU-GHS/CLP]
Water	(CAS) 7732-18-5 (EC/EINECS/ELINS) 231-791-2	50	Not classified
Potassium acetate	(CAS) 127-08-2 (EC/EINECS/ELINS) 204-822-2	50	Not classified

Full text of R- and H-phrases: see section 16

3.2. Mixture

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. In all cases of doubt, or when symptoms persist, seek medical attention.

First-aid measures after skin contact : Immediately remove contaminated clothing or footwear. After contact with skin, wash immediately with plenty of water and soap. In all cases of doubt, or when symptoms persist, seek medical advice.

First-aid measures after eye contact : Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum).

First-aid measures after ingestion : If swallowed, rinse mouth with water (only if the person is conscious). Get medical advice/attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : No symptoms known up to now.

Symptoms/injuries after skin contact : Due to its pH-value (see chapter 9), irritation of the skin and eyes cannot be ruled out.

Symptoms/injuries after eye contact : Due to its pH-value (see chapter 9), irritation of the skin and eyes cannot be ruled out.

Symptoms/injuries after ingestion : May cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Dry powder. Carbon dioxide (CO2). Water spray. Alcohol-resistant foam.

Unsuitable extinguishing media : Strong water jet.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Aqueous liquid. Does not present any particular risk in the event of a fire.

Explosion hazard : Aqueous solution.

5.3. Advice for firefighters

Firefighting instructions : Extinguishing measurements should be adjusted to the surrounding area.

Protection during firefighting : Wear fire/flame resistant/retardant clothing. In case of fire: Wear self-contained breathing apparatus.

Other information : Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : See protective measures under point 7 and 8.

6.1.2. For emergency responders

Protective equipment : See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not empty into drains or the aquatic environment.

6.3. Methods and material for containment and cleaning up

For containment : Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Collect in closed containers for disposal.

Methods for cleaning up : After cleaning, flush away traces with water.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin, eye and clothing.

Hygiene measures : Wash hands before breaks and at the end of work. Do no eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a cool dry place.

Prohibitions on mixed storage : Oxidizing agents.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Hand protection : Single-use gloves. PVC (Polyvinyl chloride). (EN 374).

Eye protection : Tightly sealed safety glasses. (EN 166).

Respiratory protection : In case of fine dispersion/spraying/misting: Filter respirator (full mask or mouth-piece) with filter: P2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Colour	:	Colourless to light yellow.
Odour	:	odourless.
Odour threshold	:	No data available
pH	:	11
Relative evaporation rate (butylacetate=1)	:	No data available
Melting point	:	-60 °C
Freezing point	:	No data available
Boiling point	:	100 °C
Flash point	:	Aqueous solution.
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	No data available
Vapour pressure	:	23 mbar @20°C
Relative vapour density at 20 °C	:	No data available
Relative density	:	No data available
Density	:	1,25-1,3 g/cm³ @20°C
Solubility	:	Water: complete miscible
Log Pow	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	6,5 mPa.s @ 20°C
Explosive properties	:	No data available.
Oxidising properties	:	No data available.

Explosive limits : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under use and storage conditions as recommended in section 7.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

Oxidizing agents.

10.6. Hazardous decomposition products

Carbon oxides (COx).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Potassium acetate (127-08-2)	
LD50 oral rat	3250 mg/kg bodyweight
LD50 dermal rat	> 33821 mg/kg bodyweight
LC50 inhalation rat	> 6,95 mg/l/4h

Skin corrosion/irritation : Not classified
pH: 11

Serious eye damage/irritation : Not classified
pH: 11

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Potassium acetate (127-08-2)	
NOAEL (subacute, oral, animal/male, 28 days)	> 3600 mg/kg bodyweight
NOAEL (subchronic, oral, animal/male, 90 days)	>= 21 mg/kg bodyweight

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : highly soluble.

Provifrost KA ECO (127-08-2)	
LC50 fishes 1	> 500 mg/l (96h,Danio rerio,test limit)
LC50 other aquatic organisms 1	> 1000 mg/l (48h,Daphnia magna, test limit)
EC50 other aquatic organisms 1	> 500 mg/l (72h, Pseudokirchneriella subcapitata, test limit)

12.2. Persistence and degradability

Provifrost KA ECO (127-08-2)	
Persistence and degradability	Readily biodegradable.
Biochemical oxygen demand (BOD)	0,22 g O2/g substance
Chemical oxygen demand (COD)	0,33 g O2/g substance

Potassium acetate (127-08-2)	
Persistence and degradability	Readily biodegradable.

12.3. Bioaccumulative potential

Provifrost KA ECO (127-08-2)	
Log Pow	No data available

Potassium acetate (127-08-2)	
Log Pow	- 3,72 calculated.
Bioaccumulative potential	No indication of bio-accumulation potential.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Provifrost KA ECO (127-08-2)
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Remove according to the regulations.

Sewage disposal recommendations : Ensure all waste water is collected and treated via a waste water treatment plant.

Waste disposal recommendations : Collect in closed containers for disposal.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport

No additional information available

14.6.2. Transport by sea

No additional information available

14.6.3. Air transport

No additional information available

14.6.4. Inland waterway transport

Carriage prohibited (ADN) : No

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Provifrost KA ECO is not on the REACH Candidate List
Contains no substance on the REACH candidate list
Provifrost KA ECO is not on the REACH Annex XIV List
Contains no REACH Annex XIV substances

15.1.2. National regulations

Germany

Water hazard class (WGK) : 1 - low hazard to waters

15.2. Chemical safety assessment

For this substance a chemical safety assessment has been carried out.

SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

AC1	Vehicles
AC2	Machinery, mechanical appliances, electrical/electronic articles
AC3	Electrical batteries and accumulators
ERC1	Manufacture of substances
ERC10a	Wide dispersive outdoor use of long-life articles and materials with low release
ERC11a	Wide dispersive indoor use of long-life articles and materials with low release
ERC2	Formulation of preparations
ERC3	Formulation in materials
ERC5	Industrial use resulting in inclusion into or onto a matrix
ERC6a	Industrial use resulting in manufacture of another substance (use of intermediates)
ERC6c	Industrial use of monomers for manufacture of thermo-plastics
PC32	Polymer preparations and compounds
PC4	Anti-Freeze and De-icing products
PROC1	Use in closed process, no likelihood of exposure
PROC11	Non industrial spraying
PROC13	Treatment of articles by dipping and pouring
PROC14	Production of preparations or articles by tabletting, compression, extrusion, pelletisation
PROC15	Use as laboratory reagent
PROC2	Use in closed, continuous process with occasional controlled exposure
PROC21	Low energy manipulation of substances bound in materials and/or articles
PROC24	High (mechanical) energy work-up of substances bound in materials and/or articles
PROC3	Use in closed batch process (synthesis or formulation)
PROC4	Use in batch and other process (synthesis) where opportunity for exposure arises
PROC5	Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)
PROC7	Industrial spraying
PROC8a	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities
PROC8b	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
PROC9	Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
SU0	Other
SU10	Formulation [mixing] of preparations and/or re-packaging (excluding alloys)
SU12	Manufacture of plastics products, including compounding and conversion
SU3	Industrial uses: Uses of substances as such or in preparations* at industrial sites
SU8	Manufacture of bulk, large scale chemicals (including petroleum products)