

Safety Data Sheet

(According to Regulation (EC) No 1907/2006, its amending Regulation (EU) 2015/830 and Regulation (EC) No 1272/2008)

KRONOTREAT 2173

Created on: 02-08-2016
Review date: 09-09-2020
Version: 3.0

Starting from the date of review, the previously issued datasheets expire

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1. Product Identifier

Mixture identification:

Trade name: KRONOTREAT 2173

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

Industrial use: phosphating agent

1.3. Details of the supplier of the safety data sheet

LTD PaintTeid

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2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

2.1.1. Classification according to Regulation (EC) No 1272/2008 [CLP]:

Skin corrosion/irritation: Category 2 (H315)

Serious eye damage/Eye irritation: Category 2 (H319)

Skin sensitisation: Category 1 (H317)

STOT - SE: Respiratory tract irritation: Category 3 (H335)

2.2. Label elements



CONTAINS: sodium dihydrogen phosphate, hexamethylenetetramine

Signal word:

WARNING

Hazard Statements:

- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H319: Causes serious eye irritation.
- H335: May cause respiratory irritation.

Precautionary statement:

- P233: Keep container tightly closed.
- P280: Wear protective gloves/protective clothing/eye protection/face protection
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
- P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308 + P313: IF exposed or concerned: Get medical advice/attention.

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of EEC directive 67/548 and CLP regulation and related classification:

Components	EC No	Index No	CAS No	REACH Registration No	Weight %	Classification according to Regulation (EC) No 1272/2008 (CLP)
Sodium dihydrogen phosphate	231-449-2	-	7558-80-7	-	70 – 80%	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
Phosphoric acid ⁽¹⁾	231-633-2	015-011-00-6	7664-38-2	-	1 – 3%	Skin Corr 1B, H314
Fatty alcohol ethoxylate-propoxylate	614-484-1	-	68439-51-0	-	1 – 3%	Aquatic Acute 1, H400
Hexamethylenetetramine	202-905-8	612-101-00-2	100-97-0	-	1 – 3%	Flam. Sol. 2, H228 Skin Sens. 1, H317

(1) Component with specific concentration limits: Skin Corr. 1B, H314: C ≥ 25%; Skin Irrit. 2, H315: 10% ≤ C < 25%; Eye Irrit. 2, H319: 10% ≤ C < 25%.

The concentration of other hazardous ingredients does not exceed the reporting limit.

For the full text of H statements, see Section 16

4. FIRST AID MEASURES

4.1. Description of first aid measures

IN CASE OF INGESTION:

Measures:

- Obtain medical attention and show him the label.
- Place the victim into comfortable position!
- Do not give the victim anything to eat or drink, and do not induce vomiting if the victim is unconscious.

IN CASE OF INHALATION:

Measures:

- Take the victim into fresh air, loosen his clothes and let him rest.
- Give artificial respiration, if necessary.
- In case of symptoms, obtain medical help.

IN CASE OF SKIN CONTACT:

Measures:

- Wash the contaminated area with plenty of warm water and soap (for 15 minutes)!
- In case of symptoms, obtain medical attention and show him the label!
- Remove contaminated clothes and wash them before re-use.

IN CASE OF EYE CONTACT:

Measures:

- In case of contact with eyes flush immediately with plenty of flowing water holding eyelids apart (for at least 15 – 30 minutes). Remove eye lenses, if possible.
- Obtain medical help

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

In case of inhalation: the vapours of the product can cause severe irritation of mucous membrane and respiratory system.

In case of skin contact: Causes severe burns.

In case of eye contact: Causes severe eye damage.

In case of ingestion: Burning sensation, vomiting, perforation of the digestive system may occur.

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

Use symptomatic treatment. Show the product label or safety data sheet to the doctor.

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media:

Dry chemicals, foam or carbon dioxide, water or water-based foam can also be used

Extinguishing media which must not be used for safety reasons:

High pressure water yet.

5.2. Special hazards arising from the substance or mixture

Product is neither flammable nor explosive.

Contact with common metals produces hydrogen which may form flammable mixtures with air. Keep product away from heat, sparks, open flames or hot surfaces.

5.3. Advice for fire-fighters

Wear full protective clothing (EN 469) and self-contained breathing apparatus (SCBA, EN 133).

People are not allowed in the dangerous area. Containers exposed to fire or heat must be chilled by water or removed from the hazardous area.

Prevent water leakage into sewage or surface water.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

See protective measures under point 8.

Ensure adequate ventilation. Avoid skin, clothing and eye contact. Keep persons away from exposure zone. Wear chemically resistant gloves, goggles and protective clothing.

Containers exposed to fire or heat shall be cooled by water or eliminated from the danger zone.

For emergency personnel:

Wear personal protection equipment according to point 8.

In case of exposure ask for medical assistance.

Remove contaminated clothing and wash them before re-use.

See protective measures under point 7 and 8

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Observe conventional hygiene precautions.

Avoid breathing vapour.

Avoid contact with skin, eyes and clothing.

Ensure adequate ventilation.

Do not eat, drink or smoke when using this product.

Observe exposure limits.

At the place of work, indicate the dangers arising from the product in accordance with Directive 1992/58 / EC.

Provide emergency shower and eye-wash station at the place of work.

Precautions against fire and explosion:

Product is not flammable.

7.2. Conditions for safe storage, including any incompatibilities

A chemical resistant floor is required.

Keep in closed area, in the original, tightly closed and labelled container.

Store in cool and dry place.

Store in vertical position.

Do not expose to direct sunlight.

Keep in the package provided by the manufacturer. If re-packing is necessary, apply packaging that is resistant to the mixture.

Technical measures and storage condition: store at **5 - 40°C**

Incompatible materials:

Do not store together with strong oxidizing agents, acids or metals.

Keep away from food, beverages and forage.

Keep in original, tightly closed and labelled container. Metal containers are not suitable.

Avoid falling or damage of containers

Shelf lifetime: 1 year

7.3. Specific end use(s)

Recommendations: See our technical data sheet.

Industrial sector specific solutions: See our technical data sheet.

Exposure scenario(s): Exposure scenario is not yet available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters**

Phosphoric acid - CAS: 7664-38-2

Workplace limit values:

- - TWA: 1 mg/m

- - STEL: 2 mg/m³

8.2. Exposure controls

Appropriate engineering controls:

In order to ensure the proper air extraction, ventilation shall be applied.

General terms:

Get acquainted with the special instructions for the mixture before use.

Do not use until all safety precautions have been read and understood.

Wash your hands thoroughly at the beginning of the breaks and after work.

Do not eat while working. No smoking allowed. Avoid contact with eyes and skin. Do not swallow. Do not inhale vapours.

Immediately remove contaminated clothing and rinse immediately after work.

Eye protection:

Use close fitting safety goggles (EN 166), don't use eye lenses if possible.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or Viton. During loading operations: wear protective helmet.

Protection for hands:

Wear chemically resistant gloves (EN 374).

The protective gloves material must not be permeable and resistant to the mixture. For example: PVC, neoprene, rubber, with a minimum thickness of 0.4 mm.

Respiratory protection:

Apply artificial respiration. If adequate ventilation can not be ensured, use mask against inorganic vapours and gases with BFFP2, FFP3 or equivalent filters according to EN 140. (Filter capacity is determined by exposure estimation.).

Respiratory protection only serves to protect the residual risk of short-term activities whenever practically feasible steps (e.g. local exhaust ventilation) have been taken to minimize the danger. Instructions of manufacturers regarding use and maintenance of respirators shall be followed.

Thermal Hazards:

None in case of normal conditions.

Environmental exposure controls:

During application, if necessary, the proportion of airborne, technological sewage must be recovered. During the handling, transport and overhaul of the mixture the possibility of an accident shall be taken into consideration, therefore the conditions for storage and loading of the mixture should be chosen accordingly.

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties**

Appearance and colour:

colourless / yellowish viscous liquid

Odour:

odourless

Odour threshold:

N.A.

pH:

cca. 2,5 (sol. 10g/l)

Melting point / freezing point:	N.A.
Initial boiling point and boiling range:	N.A.
Solid/gas flammability:	N.A.
Upper/lower flammability or explosive limits:	N.A.
Vapour density:	N.A.
Flash point:	N.A.
Evaporation rate:	N.A.
Vapour pressure:	N.A.
Relative density:	about 1,20 g/cm ³ (25°C)
Solubility in water:	totally soluble
Lipid solubility:	N.A.
Partition coefficient (n-octanol/water):	N.A.
Auto-ignition temperature:	non flammable
Decomposition temperature:	N.A.
Viscosity:	N.A.
Explosive properties:	not explosive
Oxidizing properties:	not oxidizing
9.2. Other information	
Miscibility:	N.A.
Fat Solubility:	N.A.
Conductivity:	N.A.
Substance Groups relevant properties	N.A.

10. STABILITY AND REACTIVITY

- 10.1. Reactivity
 - Stable under normal conditions
- 10.2. Chemical stability
 - Stable under normal conditions
- 10.3. Possibility of hazardous reactions
 - Stable under recommended storage conditions.
- 10.4. Conditions to avoid
 - Excess heat, freezing temperatures.
- 10.5. Incompatible materials
 - Do not store with medicines, food or animal feed.
- 10.6. Hazardous decomposition products
 - None under normal condition of use.

11. TOXICOLOGICAL INFORMATION

- 11.1. Information on toxicological effects
 - Toxicological information of the mixture:
 - N.A.
 - Toxicological information of the main substances found in the mixture:
 - Sodium dihydrogen phosphate - CAS: 7558-80-7
 - LD50 oral (Rat) : >2000 mg/ kg bw
 - LC50 inhalation (Rat): >0,83 mg/l 4 h
 - LD50 skin (Rat): >2000 mg/ kg bw
 - Phosphoric acid - CAS: 7664-38-2
 - LD50 oral (Rat): 1,7 ml/ 100 g bw
 - LC50 inhalation (Rat): 1217 mg/m³ / 1h
 - Hexamethylenetetramine - CAS: 100-97-0
 - LD50 oral (Rat) : >2000 mg/ kg bw
 - LC50 skin (Rat): >2000 mg/ kg bw

- a) acute toxicity: not toxic
- b) skin corrosion/irritation: skin irritating
- c) serious eye damage/irritation: causes serious eye irritation
- d) respiratory or skin sensitisation: may cause allergic skin reactions.
- e) germ cell mutagenicity: is not mutagenic
- f) carcinogenicity: is not carcinogenic
- g) reproductive toxicity: does not have toxic effect on reproductibility
- h) STOT-single exposure: may cause respiratory tract irritation
- i) STOT-repeated exposure: not known
- j) aspiration hazard: not known

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Toxicity to fish, Daphnia and other aquatic invertebrates

Sodium dihydrogen phosphate - CAS: 7558-80-7

LC50 (Oncorhynchus mykiss): > 100 mg/l / 96 h

EC50 (Daphnia magna): > 100 mg/l / 48h

Phosphoric acid - CAS: 7664-38-2

median lethal pH (Lepomis macrochirus): 3 - 3,25 pH / 96 h

LC50 (Salvelinus alpinus): 4,2 pH / 192 h

EC50 (Daphnia magna): > 100 mg/l / 48h

Hexamethylenetetramine - CAS: 100-97-0

LC50 (Lepomis macrochirus): 41 g/l / 96 h

EC50 (Daphnia magna): 36 mg/l / 48h

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

Avoid entering in soil, groundwater and water drains.

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects

None

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

Waste codes / waste designations according to LoW:

As delivered: 11 01 08* phosphatising sludges

15 01 10* packaging containing residues of or contaminated by dangerous substances

14. TRANSPORT INFORMATION

14.1. UN number

Not classified as dangerous in the meaning of transport regulations.

14.2. UN proper shipping name

Not classified as dangerous in the meaning of transport regulations.

14.3. Transport hazard class(es)

Not classified as dangerous in the meaning of transport regulations.

- 14.4. Packing Group
Not classified as dangerous in the meaning of transport regulations.
- 14.5. Environmental hazards
No data about environmental hazard.
- 14.6. Special Precautions for User
Not classified as dangerous in the meaning of transport regulations.
- 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Authorisations and/or restrictions on use

Authorisations:

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

Council Directive 67/548/EEC of 27 June 1967 on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances

DIRECTIVE 2010/75/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 24 November 2010 on industrial emissions (integrated pollution prevention and control)

Directive 1999/45/EC of the European Parliament and of the Council of 31 May 1999 concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations

COUNCIL DIRECTIVE 92 / 58 /EEC of 24 June 1992 on the minimum requirements for the provision of safety and /or health signs at work (ninth individual Directive within the meaning of Article 16 (1) of Directive 89/391 /EEC)

DIRECTIVE 1999/92/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 1999 on minimum requirements for improving the safety and health protection of workers potentially at risk from explosive atmospheres (15th individual Directive within the meaning of Article 16(1) of Directive 89/391/EEC)

15.2. Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

16. OTHER INFORMATION

List of abbreviations:

CAS	Chemical Abstracts Service
DNEL	Derived No Effect level,
DMEL	Derived Minimal Effect level.
EC50	Half maximal effective concentration
EINECS	European Inventory of Existing Commercial Substances.
ELINCS	European List of Notified Chemical Substances.
GHS	Globally Harmonized System
LC50	Lethal Concentration - usually refer to the concentration of a chemical in air but in environmental studies it can also mean the concentration of a chemical in water.
LD50	Lethal Dose - the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals
MTD	Maximum Tolerated Dose,
NOAEL	No Observed Adverse Effect Level
NOEC	No Observed Effect Concentration
NOEL	No Observed Effect Level
NOELr	No Observed Effect Loading Rate
POW	Partition coefficient octanol/water.
PBT	Persistent, bioaccumulative and toxic substances.
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals.
STEL	Short Term Exposure Limit
TWA	Time Weighted Average
VOC	Volatile organic compound
vPvB	Very persistent and very bioaccumulative substances.

Full text of phrases referred to in Section 3:

- H228 Flammable solid.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H400 Very toxic to aquatic life.

The full text of the hazard classes and categories in sections 2 and 3 of the safety data sheet:

Flam Sol. 2	Flammable solid, Category 2
Skin Corr. 1	Skin corrosion / Irritation, Category 1
Skin Irrit. 2	Skin corrosion / irritation, Category 2
Skin Sens 1	Skin sensitization, Category 1
Eye Irrit. 2	Serious eye damage / eye irritation, Category 2
STOT SE 3	Specific Target Organ Toxicity – Single Exposure, Category 3
Aquatic Acute 1	Acute aquatic toxicity, Category 1

Changes in MSDS: 2nd edition.

This Safety Data Sheet contains the changes required by the Regulation (EU) No 2015/830 / EC of the European Parliament and of the (REACH) Regulation (EU) No 1907/2006 of the European Parliament and of the Council.

Method of classification of the mixture:

Classification was based on the properties of each component.

Training suggestions:

General chemistry handling training included in the occupational safety education.
First Aid Training Course.

References:

European Chemicals Agency (ECHA) registered chemicals and database:

<http://echa.europa.eu/en/>

European Chemicals Agency (ECHA) Guidance on Safety Data Sheets:

http://echa.europa.eu/documents/10162/23036412/sds_en.pdf

Guidance on labelling by the European Chemicals Agency (ECHA):

http://echa.europa.eu/documents/10162/23036412/clp_labelling_hu.pdf

The above data are limited to our current knowledge. The specified physico-chemical parameters describe the product in terms of safety requirements and do not constitute a guarantee for the specific characteristics of the product and are not the subject of a product specification or contract. The manufacturer, the distributor shall not be liable for any damage caused by inadequate use or use for not the intended purpose. It is the user's duty to comply with the applicable regulations and to take into account recommendations for the use of the product.