

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1. Product identifier**

Product trade name : KRONOCLEAN 2010

1.2. Relevant identified uses of the substance or mixture and uses advised againstIntended uses : Degreasing
Uses advised against : Metal surface treatment**1.3. Details of the supplier of the safety data sheet**Paint Trade LLC
Ukraine, Dnipro, Startova Str.3
phone: +38 (056) 375-70-25
fax: +38 (056) 375-70-30**1.4. Emergency telephone number**

: +38(056)375-70-25

SECTION 2: HAZARDS IDENTIFICATION**2.1. Classification of the substance or mixture**

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

KRONOCLEAN 2010 Category 1A – H314
Serious eye damage/ eye irritation Category 1 – (H318)

Classification procedure: Calculation method

2.2. Label elements

Label elements :

Contains : sodium hydroxide
Signal word : DANGER
Hazard Statements : H314 - Causes severe skin burns and eye damage
Precautionary statements : P233 - Keep container tightly closed
P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection
P303 + P361 + P353 - IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower
P310 - Immediately call a POISON CENTER or doctor/ physician
P201 - Obtain special instructions before use
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing**2.3. Other hazards**

None under normal use

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.1. Substances**

Not applicable. Product is a mixture

3.2. Mixture

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

Chemical name	EC No	Index.No	REACH Registration No	Weight %	Classification according to Regulation (EC) No 1272/2008 (CLP)
Sodium Hydroxide 1310-73-2	215-185-5	011-002-00-6	01-2119457892-27	10-30	Skin Corr. 1A, H314)

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

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

- Following 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
- Following 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.
- Following 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 eyelenses, if possible.
 - Obtain medical help
- Following ingestion : ASE 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.
- Self-protection of the first aider : First aider needs to protect himself.

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

- Following inhalation: : he vapours of the product can cause severe irritation of mucous membrane and respiratory system.
- Following skin contact : Causes severe burns
- Following eye contact: : Causes severe eye damage.
- Following 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

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

- Suitable extinguishing media: : Dry chemicals, foam or carbon dioxide, water or water-based foam can also be used
- Unsuitable extinguishing media: High pressure water jet

5.2. Special hazards arising from the substance or mixture

- Hazardous combustion products : 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 firefighters

- 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.

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 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

6.1.2. For emergency responders

Protective equipment : 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

For containment: : Wash with plenty of water.

6.4. Reference to other sections

See also sections 8 and 13.

SECTION 7: HANDLING AND STORAGE**7.1. Precautions for safe handling**

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)Информация отсутствует

Recommendations : See our technical data sheet

Concentration to be used : See technical data sheet

Industrial sector specific solutions: : See our technical data sheet.

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

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

Sodium hydroxide - CAS: 1310-73-2

Workplace limit values:

- TWA: 2 mg/m³
- STEL: 4 mg/m³

8.2. Exposure controls

- Appropriate engineering controls : In order to ensure the proper air extraction, ventilation shall be applied.
- General terms : et 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 vapors.
Immediately remove contaminated clothing and rinse immediately after work.
- Eye and face protection: : Use close fitting safety goggles (EN 166), don't use eye lenses if possible.
- Skin protection : Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton. During loading operations: wear protective helmet.:
- Respiratory protection : Apply artificial respiration. If adequate ventilation can not be ensured, use mask against inorganic vapors 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 (eg local exhaust ventilation) have been taken to minimize the danger. Instructions of manufacturers regarding use and maintenance of respirators shall be followed.
- Thermal hazards : Product represents no thermal hazards
- 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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1. Основные физико-химические свойства**

- Appearancee : yellowish limpid liquid
- Odour : Characteristics
- Odour threshold : No data available
- pH : 14 (sol. 50g/l)
- Melting point / freezing point (°C) : No data available
- Initial boiling point and boiling range (°C) : 100
- Flash point (°C) : Not applicable - boils at 100°C (product contains water)
- Evaporarion rate (BuAc =1) : No data available
- Flammability (solid, gas) : No data available
- Upper/lower flammability or explosive limits : No data available
- Vapour pressure (kPa) : No data available
- Vapour density (air=1) : No data available
- Relative density (g/cm³) at 40°C : 1,47
- Solubility(ies) in water : Soluble
- Partition coefficient: n-octanol/water : No data available
- Auto-ignition temperature (°C) : No data available
- Decomposition temperature (°C) : No data available

Viscosity (mm²/s) at 20 °C : 1.00
Explosive properties : Product is not explosive
Oxidising properties : Product is not an oxidiser

9.2. Other information

Pourpoint (°C) <0

SECTION 10: STABILITY AND REACTIVITY**10.1. Reactivity**

Stable under recommended storage conditions

10.2. Chemical stability

Stable under recommended storage 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

Incompatible with acids, strong oxidizing agents and metals.

Do not store with medicines, food or animal feed.

10.6. Hazardous decomposition products

None under normal use

SECTION 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 hydroxide - CAS: 1310-73-2

LD50 oral (rabbit) : 325 mg / kg bw

a) acute toxicity: not toxic

b) skin corrosion/irritation: causes severe burns

c) serious eye damage/irritation: causes serious eye damage

d) respiratory or skin sensitisation: does not have sensitizing effect

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: not known

i) STOT-repeated exposure: not known

j) aspiration hazard: not known

SECTION 12: ECOLOGICAL INFORMATION**12.1. Toxicity**

Toxicity to fish, Daphnia and other aquatic invertebrates

Sodium hydroxide - CAS: 1310-73-2

LC50 (Carassius auratus): 500 mg/l / 24 h

EC50 (Ceriodaphnia dubia): 40,4 mg/l / 48h

12.2. Persistence and degradability

Biodegradable

12.3. Bioaccumulative potential

No data available.

Product data:

12.4. Mobility in soil

Avoid entering in soil, groundwater and water drains.

12.5. Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

No data available

12.7. Additional information

No data available

SECTION 13: DISPOSAL CONSIDERATIONS**13.1. Waste treatment methods**

Packaging data: : 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.

Product data As delivered:
06 02 04- off sodium and potassium hydroxide
15 01 10* packaging containing residues of or contaminated by dangerous substances

SECTION 14: TRANSPORT INFORMATION**14.1. UN number**

UN 1824

14.2. UN proper shipping name

SODIUM HYDROXIDE SOLUTION

14.3. Transport hazard class(es)

Hazard class: 8

14.4. Packing group

Packing group: II

14.5. Environmental hazards

ADR-Environmental Pollutant: No

IMDG-Marine pollutant: No

14.6. Special precautions for user

ADR-Tunnel Restriction Code: (E)

IATA-Passenger Aircraft: 851

IATA-Cargo Aircraft: 855

Limited quantity: 1 L

Classification code: C5

IMDG-EmS: F-A, S-B

Shipping category: 2

IMDG-Storage notes: Clear of living quarter

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

N.A.

SECTION 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

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms

CLP - Regulation (EC) No 1272/ 2008 on classification, labelling and packaging of substances and mixtures REACH - Regulation (EC) No 1907/ 2006 on the Registration, Evaluation, Authorisation and Restriction of Chemicals

Key literature references and sources for data Compilation of safety data sheet:

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

Amended by:

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) (Text with EEA relevance)

Classification procedure: Calculation method

Full text of H-Statements referred to under section 3

H315 - Causes skin irritation
H314 - Causes severe skin burns and eye damage
H318 Causes serious eye damage
H319 Causes serious eye irritation.

Training advice

The information contained in this safety data sheet must be available to the professional user. The professional user of this product must be adequately informed about the possible hazards of this product. The professional user of this product must be adequately trained in the safe handling and use of chemical products.

Further information Disclaimer

This product's safety information is provided to assist our customers in assessing compliance with safety/ health/ environmental regulations. The information contained herein is based on data available to us and is believed to be accurate. However, no warranty of merchantability, fitness for any use, or any other warranty is expressed or implied regarding the accuracy of this data, the results to be obtained from the use thereof, or the hazards connected with the use of the product. Since the use of this product is within the exclusive control of the user, it is the user's obligation to determine the conditions for safe use of the product. Such conditions should comply with all regulations concerning the product.