

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

Product trade name : KRONOPASS 2127

1.2. Relevant identified uses of the substance or mixture and uses advised againstIntended uses : Passivation
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
info@silta.ua, www.silta.ua**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]**

Acute Toxicity - Oral	Category 4 - (H302)
Skin Corrosion/Irritation	Category 1 - (H314)
Serious eye damage/eye irritation	Category 1 - (H318)
Reproductive toxicity	Category 2 - (H361)
Specific target organ toxicity (single exposure)	Category 3 - (H335)

Classification procedure: Calculation method**2.2. Label elements**

Label elements :



Contains : 2,2'-iminodiethanol , 2-aminoethanol, Sodium hydroxide, Tetrasodium ethylenediaminetetraacetate

Signal word : DANGER

Hazard Statements : H302 - Harmful if swallowed
H314 - Causes severe skin burns and eye damage
H361 - Suspected of damaging fertility or the unborn child
H335 - May cause respiratory irritation

Precautionary statements : P260 - Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
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
P280 - Wear eye protection/ face protection
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
P310 - Immediately call a POISON CENTER or doctor/physician
P201 - Obtain special instructions before use
P281 - Use personal protective equipment as required

P308 + P313 - IF exposed or concerned: Get medical advice/attention
 P202 - Do not handle until all safety precautions have been read and understood

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

Description of the mixture:

Product is a mixture of: alcohol, water, amine, additives

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	Weighth %	Classification according to Regulation (EC) No 1272/2008 (CLP)
2,2',2"-nitrioltriethanol 102-71-6	203-049-8		01-2119486482-31	30-100	none
2-aminoethanol 141-43-5	205-483-3	603-030-00-8	01-2119486455-28	10 - 30	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332) Skin Corr. 1B (H314) STOT SE 3 (H335) Aquatic Chronic 3 (H412)
Tetrasodium ethylenediaminetetraacetate 64-02-8	200-573-9	607-428-00-2	01-2119486762-27	5-10	Acute Tox. 4 (H302) Acute Tox. 4 (H332) Eye Dam. 1 (H318) STOT RE 2 (H373)
2,2'-iminodiethanol 111-42-2	203-868-0	603-071-00-1	01-2119488930-28	5 - 10	Acute Tox. 4 (H302) Skin Irrit 2 (H315) Eye Dam. 1(H318) STOT RE 2 (H373)
Sodium hydroxide 1310-73-2	215-185-5	011-002-00-6	01-2119457892-27	1 - 5	Met. Corr. 1 (H290) Skin Corr. 1A (H314) Eye Irrit. 2 (H319)

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

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General notes

First aid may be given by the first person 'on the spot'. However, it is generally known that a first aider a person is with first aid training. First aiders should be familiar with the specific conditions and hazards at the workplace.

Show this safety data sheet to the doctor in attendance.

Following inhalation:

: Remove the person from the area with the chemical fumes or from the contaminated area without danger for your self . If necessary, give artificial respiration and/ or resuscitation, and place the person in the recovery position so that the airway is open. Seek professional help.

Following skin contact:

: Take off all contaminated clothing immediately.
Wash off immediately with soap and plenty of water. Consult a physician.

Following eye contact:

: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes
Call a physician immediately

Following ingestion

: Induce vomiting.
Rinse mouth with water. Call the local Poison Control Centre or a doctor and follow their advice. They will ask you for specific information, such as the name of the product, the amount ingested and the condition of the victim.

Self-protection of the first aider

Do not induce vomiting
First aider needs to protect himself.

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

Following inhalation:	:	Acute: Burns, Cough, Dyspnea, Sore throat, Irritation. Delayed: Burns, Cough, Dyspnea, Sore throat, Irritation.
Following skin contact	:	Acute: Redness, Pain, Burns, Blisters Delayed: Redness, Pain, Burns, Blisters
Following eye contact:	:	Acute: Burns, Redness, Pain, Impaired vision, Corneal damage. Delayed: Corneal damage, Burns, Redness, Pain, Impaired vision.
Following ingestion:	:	Acute: Abdominal pain, Burns, Sore throat, Burning sensation. Delayed: Abdominal pain, Burns, Sore throat, Burning sensation.

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

None

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 volume water jet

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products	:	Not applicable - boils at 100°C (product contains water)
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5.3. Advice for firefighters

Standard procedure for chemical fires

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures****6.1.1. For non-emergency personnel**

Protective equipment:	:	Use suitable protective equipment (see also section 8) to prevent any contamination of skin, eyes and personal clothing.
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6.1.2. For emergency responders

Protective equipment	:	Use suitable protective equipment (see also section 8) to prevent any contamination of skin, eyes and personal clothing.
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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.
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For cleaning up	:	
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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	:	Always keep ignition sources and product separated. Use a fire suppression system which is suitable for the facility and the potential hazards Provide sufficient air exchange and/ or exhaust in work rooms. Do not flush into surface water or sanitary sewer system Wash hands thoroughly after handling
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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: store at 5 - 40°C

Keep from freezing

Store in original package or in dedicated storage tank.

Store in accordance with local and national regulations.

Storage class 8A (D: TRGS 510)

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	
EU-Occupational Exposure (2000/39/EC)-First List of Indicative Occupational Exposure Limit Values- TWAs	Not listed
EU-Occupational Exposure (2000/39/EC)-First List of Indicative Occupational Exposure Limit Values- STELs	Not listed
Austria - Occupational Exposure Limits - TWAs - (MAK-TMWs)	2 mg/ m ³
Austria - Occupational Exposure Limits - STELs - (MAK-KZWs)	4 mg/ m ³ 8 X 5 min
Bulgaria - Occupational Exposure Limits - TWAs	2.0 mg/ m ³
Czech Republic - Occupational Exposure Limits - TWAs	1 mg/ m ³
France - Occupational Exposure Limits - TWAs (VME)	2 mg/ m ³
Hungary - Occupational Exposure Limits - TWAs (AKs)	2 mg/ m ³
Hungary - Occupational Exposure Limits - STELs (CKs)	2 mg/ m ³
Latvia - Occupational Exposure Limits - TWAs	0.5 mg/ m ³
Poland - Occupational Exposure Limits - TWAs (NDSs)	0.5 mg/ m ³
Poland - Occupational Exposure Limits - STELs (NDSChs)	1 mg/ m ³
Romania - Occupational Exposure Limits - TWAs	1 mg/ m ³
Romania - Occupational Exposure Limits - STELs	3 mg/ m ³
Slovak Republic - Occupational Exposure Limits - TWAs	2 mg/ m ³
Slovenia - Occupational Exposure Limits - TWAs	2 mg/ m ³
Slovenia - Occupational Exposure Limits - STELs	2 mg/ m ³
Spain - Occupational Exposure Limits - STELs (VLA-ECs)	2 mg/ m ³
Sweden - Occupational Exposure Limits - TLVs (LLVs)	1 mg/ m ³
Sweden - Occupational Exposure Limits - STELs (STVs)	2 mg/ m ³
United Kingdom - Workplace Exposure Limits (WELs) - STELs	2 mg/ m ³

2,2',2"-nitrlotriethanol	
EU-Occupational Exposure (2000/39/EC)-First List of Indicative Occupational Exposure Limit Values- TWAs	Not listed
EU-Occupational Exposure (2000/39/EC)-First List of Indicative Occupational Exposure Limit Values- STELs	Not listed
Austria - Occupational Exposure Limits - TWAs - (MAK-TMWs)	5 mg/ m ³
Austria - Occupational Exposure Limits - STELs - (MAK-KZWs)	10 mg/ m ³ 4 X 15 min
Belgium - Occupational Exposure Limits - TWAs	5 mg/ m ³
Czech Republic - Occupational Exposure Limits - TWAs	5 mg/ m ³
Denmark - Occupational Exposure Limits - TWAs	3.1 mg/ m ³
Finland - Occupational Exposure Limits - TWAs	5 mg/ m ³
Germany - TRGS 900 - Occupational Exposure Limits - TWAs (AGWs)	1 mg/ m ³
Lithuania - Occupational Exposure Limits - TWAs (IPRDs)	5 mg/ m ³
Lithuania - Occupational Exposure Limits - STELs (TPRDs)	10 mg/ m ³
Norway - Occupational Exposure Limits - TWAs	5 mg/ m ³
Norway - Occupational Exposure Limits - STELs	10 mg/ m ³
Portugal - Occupational Exposure Limits - TWAs (VLE-MPs)	5 mg/ m ³

Slovenia - Occupational Exposure Limits - TWAs	5 mg/ m ³
Spain - Occupational Exposure Limits - TWAs (VLA-EDs)	5 mg/ m ³
Sweden - Occupational Exposure Limits - TLVs (LLVs)	5 mg/ m ³
Sweden - Occupational Exposure Limits - STELs (STVs)	10 mg/ m ³

2,2'-Iminodlethanol

EU - Occupational Exposure (2000/39/EC) - First List of Indicative Occupational Exposure Limit Values - TWAs	Not listed
EU - Occupational Exposure (2000/39/EC) - First List of Indicative Occupational Exposure Limit Values - STELs	Not listed
Austria - Occupational Exposure Limits - TWAs - (MAK-TMWs)	2 mg/ m ³
Austria - Occupational Exposure Limits - STELs - (MAK-KZWs)	4 mg/ m ³ X 15 min
Belgium - Occupational Exposure Limits - TWAs	2 mg/ m ³
Bulgaria - Occupational Exposure Limits - TWAs	10 mg/ m ³
Czech Republic - Occupational Exposure Limits - TWAs	5 mg/ m ³
Denmark - Occupational Exposure Limits - TWAs	2 mg/ m ³
Finland - Occupational Exposure Limits - TWAs	2 mg/ m ³
France - Occupational Exposure Limits - TWAs (VME)	15 mg/ m ³
Germany - TRGS 900 - Occupational Exposure Limits - TWAs (AGWs)	0.5 mg/ m ³
Lithuania - Occupational Exposure Limits - TWAs (IPRDs)	15 mg/ m ³
Lithuania - Occupational Exposure Limits - STELs (TPRDs)	30 mg/ m ³
Norway - Occupational Exposure Limits - TWAs	15 mg/ m ³
Norway - Occupational Exposure Limits - STELs	22.5 mg/ m ³
Poland - Occupational Exposure Limits - TWAs (NDSs)	9 mg/ m ³
Portugal - Occupational Exposure Limits - TWAs (VLE-MPs)	2 mg/ m ³
Slovenia - Occupational Exposure Limits - TWAs	15 mg/ m ³
Spain - Occupational Exposure Limits - TWAs (VLA-EDs)	2 mg/ m ³
Sweden - Occupational Exposure Limits - TLVs (LLVs)	15 mg/ m ³
Sweden - Occupational Exposure Limits - STELs (STVs)	30 mg/ m ³

Tetrasodium ethylenediaminetetraacetate

EU - Occupational Exposure (2000/39/EC) - First List of Indicative Occupational Exposure Limit Values - TWAs	Not listed
EU - Occupational Exposure (2000/39/EC) - First List of Indicative Occupational Exposure Limit Values - STELs	Not listed

2-aminoethanol

EU - Occupational Exposure (2000/39/EC) - First List of Indicative Occupational Exposure Limit Values - TWAs	Not listed
EU - Occupational Exposure (2000/39/EC) - First List of Indicative Occupational Exposure Limit Values - STELs	Not listed
EU - Occupational Exposure (2006/15/EC) - Second List of Indicative Occupational Exposure Limit Values - TWAs	2.5 mg/ m ³
EU - Occupational Exposure (2006/15/EC) - Second List of Indicative Occupational Exposure Limit Values - STELs	7.6 mg/ m ³
Austria - Occupational Exposure Limits - TWAs - (MAK-TMWs)	2.5 mg/ m ³
Austria - Occupational Exposure Limits - STELs - (MAK-KZWs)	7.6 mg/ m ³ X 15 min
Belgium - Occupational Exposure Limits - TWAs	2.5 mg/ m ³
Belgium - Occupational Exposure Limits - STELs	7.6 mg/ m ³
Bulgaria - Occupational Exposure Limits - TWAs	2.5 mg/ m ³
Bulgaria - Occupational Exposure Limits - STELs	7.6 mg/ m ³
Czech Republic - Occupational Exposure Limits - TWAs	2.5 mg/ m ³
Denmark - Occupational Exposure Limits - TWAs	2.5 mg/ m ³
Finland - Occupational Exposure Limits - TWAs	2.5 mg/ m ³
Finland - Occupational Exposure Limits - STELs	7.6 mg/ m ³
France - Occupational Exposure Limits - TWAs (VME)	2.5 mg/ m ³
France - Occupational Exposure Limits - STELs (VLCT)	7.6 mg/ m ³
Germany - TRGS 900 - Occupational Exposure Limits - TWAs (AGWs)	0.5 mg/ m ³

Hungary - Occupational Exposure Limits - TWAs (AKs)	2.5 mg/ m ³
Hungary - Occupational Exposure Limits - STELs (CKs)	7.6 mg/ m ³
Italy - Occupational Exposure Limits - TWAs	2.5 mg/ m ³
Italy - Occupational Exposure Limits - STELs	7.6 mg/ m ³
Latvia - Occupational Exposure Limits - TWAs	0.5 mg/ m ³
Latvia - Occupational Exposure Limits - STELs	7.6 mg/ m ³
Lithuania - Occupational Exposure Limits - TWAs (IPRDs)	8 mg/ m ³
Lithuania - Occupational Exposure Limits - STELs (TPRDs)	15 mg/ m ³
Luxembourg - Occupational Exposure Limits - TWAs	2.5 mg/ m ³
Luxembourg - Occupational Exposure Limits - STELs	7.6 mg/ m ³
Netherlands - Occupational Exposure Limits - TWAs	2.5 mg/ m ³
Netherlands - Occupational Exposure Limits - STELs	7.6 mg/ m ³
Norway - Occupational Exposure Limits - TWAs	2.5 mg/ m ³
Norway - Occupational Exposure Limits - STELs	5 mg/ m ³
Poland - Occupational Exposure Limits - TWAs (NDSSs)	2.5 mg/ m ³
Poland - Occupational Exposure Limits - STELs (NDSchs)	7.5 mg/ m ³
Portugal - Occupational Exposure Limits - TWAs (VLE-MPs)	1 ppm 2.5 mg/ m ³
Portugal - Occupational Exposure Limits - STELs (VLE-CDs)	3 ppm 7.6 mg/ m ³
Romania - Occupational Exposure Limits - TWAs	2.5 mg/ m ³
Romania - Occupational Exposure Limits - STELs	7.6 mg/ m ³
Slovak Republic - Occupational Exposure Limits - TWAs	2.5 mg/ m ³
Slovenia - Occupational Exposure Limits - TWAs	2.5 mg/ m ³
Slovenia - Occupational Exposure Limits - STELs	7.5 mg/ m ³
Spain - Occupational Exposure Limits - TWAs (VLA-EDs)	2.5 mg/ m ³
Spain - Occupational Exposure Limits - STELs (VLA-ECs)	7.5 mg/ m ³
Sweden - Occupational Exposure Limits - TLVs (LLVs)	8 mg/ m ³
Sweden - Occupational Exposure Limits - STELs (STVs)	15 mg/ m ³
United Kingdom - Workplace Exposure Limits (WELs) - TWAs	2.5 mg/ m ³
United Kingdom - Workplace Exposure Limits (WELs) - STELs	7.6 mg/ m ³

8.2. Exposure controls

Eye protection	Wear eye/ face protection
Protection for skin	: Long sleeved clothing Wear safety shoes with oil resistant soles. Wear long sleeved protective clothing.
Protection for hands	: Neoprene gloves For example: Neoprene gloves (0.75 mm - 30 min)
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	: Adequate ventilation is recommended.
Thermal hazards	Product represents no thermal hazards
Environmental exposure controls	Do not flush into surface water or sanitary sewer system

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical propertie

Appearancee	: Colourless liquid
Odour	: Characteristics
Odour threshold	: Mild odour
pH	: 11.5

Melting point / freezing point (°C)	:	No data available
Initial boiling point and boiling range (°C)	:	100°C
Flash point (°C)	:	Not applicable - boils at 100°C (product contains water)
Evaporation 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/cm ³) at 40°C	:	1,126
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 (mm ² /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

None known

10.5. Incompatible materials

Strong oxidizing agents

10.6. Hazardous decomposition products

None under normal use

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity

Product data:

ATEmix - Oral (mg/kg): 300- 2000

ATEmix - Dermal (mg/kg): >2000

ATEmix - Inhalation (mg/l/4 h - vapours): >20

Component data:

Chemical Name	LD50 - Oral, Rat (mg/kg)	LD50 - Dermal, Rabbit (mg/kg)	LC50 - Inhalation, Rat, 4h (mg/l)
2,2',2"-nitrilotriethanol 102-71-6	6400	>2000	No data available
2-aminoethanol 141-43-5	1089-1515	1025	No data available
Tetrasodium ethylenediaminetetraacetate 64-02-8	1780	1100	No data available
2,2'-iminodiethanol 111-42-2	1600	>2000	3.35 mg/ l
Sodium hydroxide 1310-73-2	325	>2000	No data available

Skin corrosion/irritation

Product data

Results: No data available

Serious eye damage/irritation

Product data:

Results: No data available

Respiratory or skin sensitisation

Product data:

Results: No data available

Germ cell mutagenicity

Product data:

Results: No data available

Carcinogenicity

Product data:

Results: No data available

Reproductive toxicity

Product data:

Results: No data available

Summary of evaluation of the CMR properties

Product data:

Results: No data available

STOT - single exposure

Product data:

Results: No data available

STOT - repeated exposure

Product data:

Results: No data available

Aspiration hazard

Product data:

Results: No data available

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Acute (short-term) toxicity

Product data:

LC50 (Fish - 96h): >100 mg/ l

EC50 (Water Flea - 48h): >100 mg/ l

IC50 (Algae - 72h): >100 mg/ l

Component data:

Chemical Name	LC50 (Fish - 96h)	EC50 (Water Flea - 48h)	IC50 (Algae - 72h)
2,2',2''-nitrilotriethanol 102-71-6	11800 mg/L (Pimephales promelas) 450-1000 mg/L (Lepomis macrochirus) 1000 mg/L (Pimephales promelas)	609.9 mg/l (Daphnia magna)	216 mg/L (Desmodesmus subspicatus) 2.2 mg/L (Pseudokirchneriella subcapitata) 512 mg/l (Scenedesmus sp)
2-aminoethanol 141-43-5	114-196 mg/ L (Oncorhynchus mykiss) 300-1000 mg/ L (Lepomis macrochirus) 227 mg/ L (Pimephales promelas) 3684 mg/ L (Brachydanio rerio) 200 mg/ L (Oncorhynchus mykiss)	65 mg/ L (Daphnia magna)	15 mg/ L (Desmodesmus subspicatus)
Tetrasodium ethylenediaminetetraacetate 64-02-8	59.8 mg/L (Pimephales promelas)	>100 mg/l (Daphnia magna)	>100 mg/
2,2'-iminodiethanol 111-42-2	460 mg/l 1460 mg/L (pimephales promelas)	30.1 - 89.9 mg/l 55 mg/l (Daphnia magna)	2.7 - 19 mg/l
Sodium hydroxide 1310-73-2	45.4 mg/L (Oncorhynchus mykiss)	40.38 mg/l (Ceriodaphnia dubia) 125 mg/l (Gambusia affinis)	>100 mg/l

Chronic (long-term) toxicity

Product data:

LC50 (Fish - 96h): >100 mg/ l

EC50 (Water Flea - 48h): >100 mg/ l

IC50 (Algae - 72h): >100 mg/ l

Biodegradation: No data available Partition coefficient n-octanol /water No data available (log Kow):

Bioconcentration factor (BCF) No data available

Component data:

Chemical Name	LC50 (Fish - 96h)	EC50 (Water Flea - 48h)	IC50 (Algae - 72h)
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2,2',2"-nitrilotriethanol 102-71-6	11800 mg/L (Pimephales promelas) 450-1000 mg/L (Lepomis macrochirus) 1000 mg/L (Pimephales promelas)	609.9 mg/ l (Daphnia magna)	216 mg/L (Desmodesmus subspicatus) 2.2 mg/L (Pseudokirchneriella subcapitata)
2-aminoethanol 141-43-5	114-196 mg/L (Oncorhynchus mykiss) 300-1000 mg/L (Lepomis macrochirus) 227 mg/L (Pimephales promelas) 3684 mg/L (Brachydanio rerio) 200 mg/L (Oncorhynchus mykiss)	65 mg/ L (Daphnia magna)	15 mg/L (Desmodesmus subspicatus)
Tetrasodium ethylenediaminetetraacetate 64-02-8	59.8 mg/L (Pimephales promelas)	>100 mg/l (Daphnia magna)	>100 mg/l
2,2'-iminodiethanol 111-42-2	460 mg/l 1460 mg/L (pimephales promelas)	30.1 - 89.9 mg/ l 55 mg/ l (Daphnia magna)	2.7 - 19 mg/l
Sodium hydroxide 1310-73-2	45.4 mg/L (Oncorhynchus mykiss)	40.38 mg/ l (Ceriodaphnia dubia) 125 mg/ l (Gambusia affinis)	>100 mg/l

Chemical Name	Biodegradation	Partition coefficient n-octanol /water (log Kow)	Bioconcentration factor (BCF)
2,2',2"-nitrilotriethanol 102-71-6	No data available	-2.476 - 1.34	<3.9
2-aminoethanol 141-43-5	No data available	<3.0	<=100
Tetrasodium ethylenediaminetetraacetate 64-02-8	No data available	No data available	No data available
2,2'-iminodiethanol 111-42-2	No data available	-2.46	No data available
Sodium hydroxide 1310-73-2	No data available	No data available	No data available

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

Product data:

Partition coefficient n-octanol /water No data available

(log Kow):

Bioconcentration factor (BCF) No data available

Component data:

Chemical Name	Partition coefficient n-octanol /water (log Kow)	Bioconcentration factor (BCF)

2,2',2''-nitrilotriethanol 102-71-6	-2.476 - 1.34	<3.9
2-aminoethanol 141-43-5	<3.0	<=100
Tetrasodium ethylenediaminetetraacetate 64-02-8	No data available	No data available
2,2'-iminodiethanol 111-42-2	-2.46	No data available
Sodium hydroxide 1310-73-2	No data available	No data available

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

None

12.6. Other adverse effects

None

12.7. Additional information

No data available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Packaging data: : Use a European return program for empty packaging. For example: ncg-europe.com.
 Product data As delivered:
 16 03 - off-specification batches and unused products
 16 03 03* - inorganic wastes containing hazardous substances
 Used No data available

SECTION 14: TRANSPORT INFORMATION



14.1 UN number

UN 3266

14.2 UN proper shipping name

CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Contains Monoethanolamine and Sodium hydroxide)

14.3 Transport hazard class(es)

Hazard-Class: 8

14.4 Packing group: III

14.5 Environmental hazards

None

14.6 Special precautions for user

Tunnel restriction code: (E)

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

Subsidiary information: None

EmS: F-A, S-B

Segregation group: 18 Alkalis

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

ANNEX XIV - LIST OF SUBSTANCES SUBJECT TO AUTHORISATION Product does not contain components as mentioned in this ANNEX.

Restrictions on use:

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

VERY PERSISTENT AND VERY BIOACCUMULATIVE SUBSTANCES

Product does not contain components as mentioned in this ANNEX.

ANNEX XVII - RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES

Product does not contain components as mentioned in this ANNEX

Other EU regulations

REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents

Product is not subject to this regulation.

REGULATION (EC) No 689/2008 OF THE EUROPEAN PARLIAMENT AND OF THE

COUNCIL of 17 June 2008 concerning the export and import of dangerous chemicals Product does not contain components as mentioned in this regulation.

COUNCIL REGULATION (EC) No 111/2005 of 22 December 2004 laying down rules for the monitoring of trade between the Community and third countries in drug precursors Product does not contain components as mentioned in this regulation.

REGULATION (EC) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer Product does not contain components as mentioned in this regulation.

REGULATION (EU) No 98/2013 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 15 January 2013 on the marketing and use of explosives precursors Product does not contain components as mentioned in this regulation. Commission Decision of 3 May 2000 replacing Decision 94/3/EC establishing a list of wastes pursuant to Article 1(a) of Council Directive 75/442/EEC on waste and Council Decision 94/904/EC establishing a list of hazardous waste pursuant to Article 1(4) of Council Directive 91/689/EEC on hazardous waste (notified under document number C(2000) 1147)

(Text with EEA relevance) (2000/532/EC)

Waste codes / waste designations according to LoW:

As delivered: 16 03 - off-specification batches and unused products

16 03 03* - inorganic wastes containing hazardous substances

COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items Product does contain components as mentioned in this regulation.

COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Co

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



SAFETY DATA SHEET
according to Regulation (EC) No 1907/ 2006
as amended by Regulation (EU) No 2015/ 830

KRONOPASS 2127

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

H302 - Harmful if swallowed

H315 - Causes skin irritation

H318 - Causes serious eye damage

H361 - Suspected of damaging fertility or the unborn child if inhaled

H373 - May cause damage to the kidneys/ liver/ eyes/ brain/ respiratory system/ central nervous system through prolonged or repeated exposure if inhaled

H290 - May be corrosive to metals

H314 - Causes severe skin burns and eye damage

H319 - Causes serious eye irritation

H312 - Harmful in contact with skin

H332 - Harmful if inhaled

H335 - May cause respiratory irritation

H412 - Harmful to aquatic life with long lasting effect **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.