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

1.1 Product identifiers
   Trade Name or designation
   DP1265
   Poultry Shield

1.2 Identification of Uses
   Uses advised against
   Cleaner
   No specific uses advised against

1.3 Supplier
   Biolink Limited.
   Halifax Way
   Pocklington Ind. Est
   Pocklington
   York
   YO42 1NR
   Telephone No.
   +44 (0) 1759 303444
   Fax No.
   +44 (0) 1759 303158
   Email
   info@biolinklimited.co.uk

1.4 Emergency Phone
   +44 (0) 1280 738605 (office hours only)

2 - HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to 67/548/EEC or 1999/45/EEC as amended
   Xi, R38, R41, R52/53

Classification in accordance to EC 1272/2008 as amended

PHYSICAL HAZARDS
   Not Classified

HEALTH HAZARDS
   Skin Irritant Category 2 H315 Causes Skin irritation
   Eye Damage Category 1 H318 Causes serious eye damage

ENVIRONMENTAL HAZARDS
   Aquatic Chronic Category 3 H412 Harmful to aquatic life with long lasting effects

Hazard summary

Physical hazards
   Not Classified

Health hazards
   Causes Skin irritation. Causes serious eye damage.

Environmental hazards
   Harmful to aquatic life with long lasting effects.

Specific hazards
   No specific hazards noted.

Main symptoms
   May cause irritation to the skin. Symptoms may include redness, discomfort, rash. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.
1.2 Label elements
Label in accordance with EC 1272/2008 as amended

Contains SODIUM HYDROXIDE

Hazard pictograms

Signal word Danger

Hazard statements
H315 Causes Skin irritation
H318 Causes serious eye damage
H412 Harmful to aquatic life with long lasting

Precautionary statements
Prevention
P264 Wash hands and skin thoroughly after handling
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P302+352 IF ON SKIN: Wash with plenty of soap and water
P332+313 If skin irritation or rash occurs: Get medical advice/attention

Storage
Not applicable

Disposal
P501 Dispose of contents/container in accordance with local regulations.

1.3 Other hazards
Not known

3 - COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

<table>
<thead>
<tr>
<th>B-ALANINE, N-(2-CARBOXYETHYL)-N-COCO ALKYL DERVIS,. DISODIUM SALTS</th>
<th>1-4 %</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS-No.: 90170-43-7</td>
<td>EC No.: 290-476-8</td>
</tr>
<tr>
<td>Classification (67/548/EEC)</td>
<td>Classification (EC 1272/2008)</td>
</tr>
<tr>
<td>XI, R36</td>
<td>Eye Irrit. 2 - H319</td>
</tr>
<tr>
<td>------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>ALANINE, N,N-BIS(CARBOXYMETHYL)-SODIUM SALT (1:3)</td>
<td>164462-16-2</td>
</tr>
<tr>
<td>DIDECYLDIMETHYLAMMONIUM CHLORIDE</td>
<td>7173-51-5</td>
</tr>
<tr>
<td>N-(3-AMINOPROPYL)-N-DODECYLPROPANE-1,3-DIAMINE</td>
<td>2372-82-9</td>
</tr>
</tbody>
</table>

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.
4 - FIRST AID MEASURES

General Information
First aiders should wear suitable protective clothing.

4.1 Description of first aid measures

Inhalation
Move the exposed person to fresh air at once. Get medical attention. Provide rest, warmth and fresh air. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.

Ingestion
Move the exposed person to fresh air at once. Get medical attention. Provide rest, warmth and fresh air. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.

Skin contact
Remove contaminated clothing. Wash off with plenty of water. Consult a doctor if symptoms persist.

Eye contact
Remove contaminated clothing. Wash off with plenty of water. Consult a physician if symptoms persist.

4.2 Most important symptoms and effects, both acute and delayed

May cause irritation to the skin. Symptoms may include redness, discomfort, rash. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

4.3 Indication of any immediate medical attention and special treatment needed

Rinse eye immediately with sterile saline solution.
Seek medical attention in case of ingestion, inhalation or contact with eyes.
If swallowed gastric irrigation with activated carbon

5 - FIRE FIGHTING MEASURES

General Fire Hazards

5.1. Extinguishing media

SUITABLE EXTINGUISHING MEDIA
Water spray, Dry powder, foam.

UNSUITABLE EXTINGUISHING MEDIA
None

5.2. Special hazards arising from the substance or mixture

UNUSUAL FIRE & EXPLOSION HAZARDS
In case of fire toxic gases may be released. (COx, NOx, HCl).

SPECIFIC HAZARDS
None noted.

5.3. Advice for fire-fighters

SPECIAL FIRE FIGHTING PROCEDURES
Collect fire extinguishing water separately, do not allow to enter drains. Exceptionally large spillages should be notified to the appropriate authorities.

PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS
Wear self-contained breathing apparatus.

6 - ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Keep unnecessary people away. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area.
6.2. **Environmental precautions**
Do not let product enter drains. Discharge into the environment must be avoided. Appropriate authorities should be notified in case of contamination of sewerage or surface water.

6.3. **Methods and material for containment and cleaning up**
Prevent further leakage or spillage if safe to do so. If possible contain the spillage with adsorbent material, place in a suitable container and dispose of as described in section 13 of this safety data sheet. Quats. are incompatible with anionic compounds e.g. anionic surfactants. If large quantities are released into waste water collect in an appropriate container. Adjust with sodium lauryl sulphate solution (Concentration twice as high as the active ingredient in the waste water) to a mixture ratio of 1:1. Polluted surfaces can be decontaminated with a 10% sodium lauryl sulphate solution.

6.4. **Reference to other sections**
Personal protection – section 8.
Disposal considerations – Section 13.

---

7 - HANDLING AND STORAGE

7.1 **Precautions for safe handling**
Ensure good ventilation when using this product, avoid inhalation of vapours and spray. Handle with care and avoid spilling, skin and eye contact. Do not handle broken packages without protective equipment. Follow instructions and ensure correct dilution of this product before use.

7.2 **Conditions for safe storage, including any incompatibilities**
Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container

7.3 **Specific end use(s)**
Cleaner

---

8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 **Control parameters**

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Value</th>
<th>Control Parameters</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>SODIUM HYDROXIDE</td>
<td>1310-73-2</td>
<td>TWA</td>
<td>2 mg/m³ Inhalable aerosol</td>
<td>Austrian OEL Regulation</td>
</tr>
<tr>
<td>SODIUM HYDROXIDE</td>
<td>1310-73-2</td>
<td>STEL</td>
<td>4 mg/m³ Inhalable aerosol</td>
<td>Austrian OEL Regulation</td>
</tr>
<tr>
<td>SODIUM HYDROXIDE</td>
<td>1310-73-2</td>
<td>TWA</td>
<td>2 mg/m³</td>
<td>Belgium VLEP/GWBB</td>
</tr>
<tr>
<td>SODIUM HYDROXIDE</td>
<td>1310-73-2</td>
<td>TWA</td>
<td>2 mg/m³</td>
<td>Denmark</td>
</tr>
<tr>
<td>SODIUM HYDROXIDE</td>
<td>1310-73-2</td>
<td>STEL</td>
<td>2 mg/m³</td>
<td>Denmark</td>
</tr>
<tr>
<td>SODIUM HYDROXIDE</td>
<td>1310-73-2</td>
<td>TWA</td>
<td>2 mg/m³</td>
<td>France INRS</td>
</tr>
<tr>
<td>SODIUM HYDROXIDE</td>
<td>1310-73-2</td>
<td>TWA</td>
<td>2 mg/m³</td>
<td>Hungary Decree No. 25/2000 (IX.30)</td>
</tr>
<tr>
<td>SODIUM HYDROXIDE</td>
<td>1310-73-2</td>
<td>STEL</td>
<td>2 mg/m³</td>
<td>Hungary Decree No. 25/2000 (IX.30)</td>
</tr>
<tr>
<td>SODIUM HYDROXIDE</td>
<td>1310-73-2</td>
<td>STEL</td>
<td>2 mg/m³</td>
<td>Ireland</td>
</tr>
<tr>
<td>SODIUM HYDROXIDE</td>
<td>1310-73-2</td>
<td>TWA</td>
<td>0.5 mg/m³</td>
<td>Latvia</td>
</tr>
<tr>
<td>SODIUM HYDROXIDE</td>
<td>1310-73-2</td>
<td>TWA</td>
<td>0.5 mg/m³</td>
<td>Poland - NDS</td>
</tr>
<tr>
<td>SODIUM HYDROXIDE</td>
<td>1310-73-2</td>
<td>STEL</td>
<td>1 mg/m³</td>
<td>Poland - NDS</td>
</tr>
<tr>
<td>SODIUM HYDROXIDE</td>
<td>1310-73-2</td>
<td>TWA</td>
<td>2 mg/m³</td>
<td>Spain - Royal Decree 374/2001</td>
</tr>
<tr>
<td>SODIUM HYDROXIDE</td>
<td>1310-73-2</td>
<td>TWA</td>
<td>1 mg/m³</td>
<td>Sweden</td>
</tr>
<tr>
<td>SODIUM HYDROXIDE</td>
<td>1310-73-2</td>
<td>STEL</td>
<td>2 mg/m³</td>
<td>Sweden</td>
</tr>
<tr>
<td>SODIUM HYDROXIDE</td>
<td>1310-73-2</td>
<td>TWA</td>
<td>2 mg/m³ Inhalable aerosol</td>
<td>Switzerland</td>
</tr>
<tr>
<td>SODIUM HYDROXIDE</td>
<td>1310-73-2</td>
<td>STEL</td>
<td>2 mg/m³ Inhalable aerosol</td>
<td>Switzerland</td>
</tr>
<tr>
<td>SODIUM HYDROXIDE</td>
<td>1310-73-2</td>
<td>STEL</td>
<td>2 mg/m³</td>
<td>UK - EH40 WEL</td>
</tr>
</tbody>
</table>
Biolink Ltd. Safety Data Sheet

Biological limit values

Recommended monitoring procedures
Follow standard monitoring procedures.

Derived no-effect level (DNEL)
SODIUM HYDROXIDE

<table>
<thead>
<tr>
<th>Route</th>
<th>Use</th>
<th>Effect</th>
<th>Time</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>Worker</td>
<td>Local</td>
<td>Long Term</td>
<td>1.0 mg/m³</td>
</tr>
<tr>
<td>Dermal</td>
<td>Worker</td>
<td>Local</td>
<td>Short Term</td>
<td>2 %</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Consumer</td>
<td>Local</td>
<td>Long Term</td>
<td>1.0 mg/m³</td>
</tr>
<tr>
<td>Dermal</td>
<td>Consumer</td>
<td>Local</td>
<td>Short Term</td>
<td>2 %</td>
</tr>
</tbody>
</table>

Predicted no effect concentrations (PNECs)
Not available

8.2 Exposure controls

Appropriate Engineering controls
No specific engineering measures are noted except that this product should be used in a well ventilated area.

Individual protection measures, such as personal protective equipment
In case of splashing wear suitable protective equipment.

General information
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday

Respiratory equipment
Where risk assessment shows air-purifying respirators are appropriate use a respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator.

Hand protection
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.6 mm
Break through time: >480 min

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.2 mm
Break through time: >35 min

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an Industrial Hygienist familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Eye protection
In case of splashing, wear safety goggles or face shield.
Other protection
Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

Hygiene measures
DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly with soap & water if skin becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

Environmental exposure controls
Do not discharge into the watercourse or drains.

9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance
Physical State: Liquid
Form: Solution
Colour: Clear to pale yellow

pH 13.0 approx.
BP/BP Range >100°C
MP/MP Range <0°C
SG/Density 1.0 – 1.1 g/ml
Solubility Completely miscible in water

9.2. Other information
Not known

10 - STABILITY AND REACTIVITY

10.1 Reactivity
Not expected under normal conditions of use

10.2 Chemical stability
Stable under normal temperature conditions

10.3 Possibility of hazardous reactions
Not expected under normal conditions of use

10.4 Conditions to avoid
Avoid exposure to high temperatures or direct sunlight. Acids and chlorinated hydrocarbons

10.5 Incompatible materials
Materials to avoid -strong acids or alkalis. Oxidising agents. Chlorinated hydrocarbons. Anionic compounds

10.6 Hazardous decomposition products
None, see section 5 for decomposition products under fire conditions

11 - TOXICOLOGICAL INFORMATION

General information

Information on likely routes of exposure
Inhalation
No specific hazards known.

Skin contact
May cause irritation to the skin. Symptoms may include redness, discomfort, and rash.

Eye contact
CAUSES serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.
Ingestion
Classified as a skin irritant, may cause discomfort if swallowed.

Symptoms
May cause irritation to the skin. Symptoms may include redness, discomfort, rash. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

11.1 Information on toxicological effects

Acute toxicity
BETA-ALANINE, N-(2-CARBOXYETHYL)-N-DODECYL MONOSODIUM SALT
Oral LD50 >5000 mg/kg
ALCOHOLS, C12-15, ETHOXYLATED
Oral LD50 >200-2000 mg/kg (Rat)
ALANINE, N,N-BIS(CARBOXYMETHYL)-,SODIUM SALT (1:3)
Oral LD50 >4000 mg/kg
Inhalation LC50 4h >5mg/l
Dermal LD50 >4000 mg/kg
DIDECYLDIMETHYLAMMONIUM CHLORIDE
Oral LD50 238 mg/kg (Rat)
Dermal LD50 3342 mg/kg (Rabbit)
QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES
Oral LD50 795 mg/kg (Rat)
Dermal ATEmix > 5000 mg/kg (calculated)
N-(3-AMINOPROPYL)-N-DODECYLPROPANE-1, 3-DIAMINE
Oral LD50 871 mg/kg (Rat)
Dermal LD50 >2000 mg/kg (Rat)

Skin corrosion/irritation
ALANINE, N,N-BIS(CARBOXYMETHYL)-,SODIUM SALT (1:3)
OECD 404 Not irritating
DIDECYLDIMETHYLAMMONIUM CHLORIDE
OECD 404 1h Corrosive (Rabbit)
QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES
OECD 404 Corrosive (Rabbit)
N-(3-AMINOPROPYL)-N-DODECYLPROPANE-1,3-DIAMINE
OECD 404 4 h Corrosive

Serious eye damage/eye irritation
ALANINE, N,N-BIS(CARBOXYMETHYL)-,SODIUM SALT (1:3)
OECD 405 Not irritating

Respiratory sensitisation
Based on the available data not classified as a respiratory sensitiser.

Skin sensitisation
ALANINE, N,N-BIS(CARBOXYMETHYL)-,SODIUM SALT (1:3)
OECD 406 Not sensitising
DIDECYLDIMETHYLAMMONIUM CHLORIDE
Buehler Test Not Sensitising (Guinea pig)
QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES
OECD 406 Not sensitising (Guinea pig)
N-(3-AMINOPROPYL)-N-DODECYLPROPANE-1,3-DIAMINE
OECD 406 Not sensitising
Germ cell mutagenicity
ALANINE, N,N-BIS(CARBOXYMETHYL)-, SODIUM SALT (1:3)
OECD 471 Negative
HGPRT assay Negative
Micronucleus assay Negative
N-(3-AMINOPROPYL)-N-DOECYLPROPANE-1,3-DIAMINE
OECD 471 Negative (Salmonella typhimurium)
OECD 476 Negative (CH cells V79)
OECD 473 Negative (CH cells V79)

Carcinogenicity
Based on the available data the product is not classified as a carcinogen.
IARC Monographs. Overall Evaluation of Carcinogenicity
Not listed

Reproductive toxicity
ALANINE, N,N-BIS(CARBOXYMETHYL)-, SODIUM SALT (1:3)
OECD 421/422 Negative
Developmental toxicity
NOAEL >2000 mg/kg Oral (Rat)

Specific target organ toxicity - single exposure
Based on the available data not classified as a STOT SE

Specific target organ toxicity - repeated exposure
ALANINE, N,N-BIS(CARBOXYMETHYL)-, SODIUM SALT (1:3)
May cause damage to the kidney after repeated ingestion of high doses-animal studies
OECD 453 NOAEL 530 mg/kg Oral (Rat)

Aspiration hazard
Based on the available data not classified as an aspiration hazard

Mixture versus substance information
No data available

12 - ECOLOGICAL INFORMATION

12.1 Toxicity
N-(3-AMINOPROPYL)-N-DOECYLPROPANE-1,3-DIAMINE
Toxicity to fish LC50 96 h 0.68 mg/l Oncorhynchus mykiss
LC50 96 h 0.45 mg/l Lepomis macrochirus
Toxicity to aquatic invertebrates EC50 48 h 0.73 mg/l Daphnia magna
NOEC 21 d 0.024 mg/l Daphnia magna
Toxicity to Algae ErC50 96 h 0.054 mg/l P. subcapitata
ErC10 72 h 0.012 mg/l Desmodesmus subspicatus
Toxicity to Bacteria EC50 3 h 18 mg/l Activated sludge
QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES
Toxicity to fish LC50 96 h 0.085 mg/l (rainbow trout)
Toxicity to aquatic invertebrates EC50 48 h 0.016 mg/l Daphnia magna.
Toxicity to Algae EC50 72 h 0.025 mg/l P. subcapitata
DIDECYLDIMETHYLAMMONIUM CHLORIDE
Toxicity to fish LC50 96 h 0.19mg/l Pimephales promelas
NOEC 34 d 0.032 mg/l Danio rerio
Toxicity to aquatic invertebrates EC50 48 h 0.062 mg/l Daphnia magna
NOEC 21 d 0.010 mg/l Daphnia magna
Toxicity to Algae ErC50 96 h 0.026 mg/l P. subcapitata
Toxicity to Bacteria EC50 3 h 11 mg/l Activated Sludge
ALANINE, N,N-BIS(CARBOXYMETHYL)-, SODIUM SALT (1:3)
Toxicity to fish LC50 96 h >200 mg/l Brachydanio rerio
NOEC 28d ≥ 200 mg/l Oncorhynchus mykiss
Toxicity to aquatic invertebrates EC50 48 h >200 mg/l Daphnia magna
11.2 Persistence and degradability

N-(3-AMINOPROPYL)-N-DODECYLPROPANE-1, 3-DIAMINE

OECD 303 A 12-15 d 96 %
OECD 302 B 28 d 91 %
OECD 301 D 28 d 79 %
Mineralisation 28 d 73.8 %

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES

OECD 301 D 70% Activated Sludge
COD 1130 mg/g

DIDECYLDIMETHYLAMMONIUM CHLORIDE

OECD 301 B 28 d 72%
Die away Test 28 d 93.3%
OECD 303 A 24-70 d 91 %

ALANINE, N,N-BIS(CARBOXYMETHYL)-SODIUM SALT (1:3)

OECD 301 F 28 d 80-90% BOD or the ThOD
OECD 311 60 d 80-90% TIC of the ThIC

BETA-ALANINE, N-(2-CARBOXYETHYL)-N-DODECYL MONOSODIUM SALT

Readily biodegradable

12.3 Bioaccumulative potential

No data available

Partition coefficient n-octanol/water (log Kow)

N-(3-AMINOPROPYL)-N-DODECYLPROPANE-1, 3-DIAMINE

N-octanol/water, OECD 107 2.88

ALANINE, N,N-BIS(CARBOXYMETHYL)-SODIUM SALT (1:3)

LogKow -4.0

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

Not known

13 - DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements

Residual waste
Dispose of waste and residues in accordance with local authority requirements

**Contaminated packaging**
Dispose of as unused product.

**EU Waste Code**
02-01-09

**Disposal methods/information**
Wear protective equipment as outlined in section 8 of this safety data sheet when handling this product contaminated materials and packaging.

**Special precautions**
Not noted.

14 - TRANSPORT INFORMATION

Road Transport Notes

14.1 **UN-number**
N/A

14.2 **UN proper shipping name**
N/A

14.3 **Transport hazard class(es)**
N/A

14.4 **Packaging group**
N/A

14.5 **Environmental hazards**
N/A

14.6 **Special precautions for users**
N/A

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

Further information
N/A

15 - REGULATORY INFORMATION

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

**Other regulations** The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.
15.2 Chemical Safety Assessment

National regulations Young people under 18 years old are not allowed to work with this product according to the EU Directive 94/33/EC on the protection of young people at work. Follow national regulation for work with chemical agents.

15.2 Chemical safety assessment
No Chemical Safety Assessment has been carried out.

16 - OTHER INFORMATION

List of abbreviations
CO Carbon Monoxide
NO Nitrogen Oxide
HCL Hydrochloric acid
TWA Time weighted average
STEL Short Term exposure limit
DW Dry weight

References

Information on evaluation method leading to the classification of mixture
The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any statements or R-phrases and H-statements under Sections 2 to 15
C Corrosive
Xn Harmful
Xi Irritant
N Dangerous to the environment
R22 Harmful if swallowed
R34 Causes burns
R35 Causes severe burns
R36 Irritating to eyes
R36/37/38 Irritating to eyes, respiratory system and skin
R41 Risk of serious damage to eyes
R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed
R50 Very toxic to aquatic organisms
H290 May be corrosive to metals
H301 Toxic if swallowed
H302 Harmful if swallowed
H314 Causes severe skin burns and eye damage
H315 Causes Skin irritation
H318 Causes serious eye damage
H319 Causes serious eye irritation
H373 May cause damage to organs
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long lasting effects
H411 Toxic to aquatic life with long lasting effects
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P273 Avoid release to the environment.
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing;
P302+ 352 IF ON SKIN: Wash with plenty of soap and water
P332+313 If skin irritation or rash occurs: Get medical advice/ attention
P501 Dispose of contents/container in accordance with local regulations.
Training information  Follow training instructions when handling this material.

Disclaimer
Biolink cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user’s responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment. The information in the sheet was written based on the best knowledge and experience currently available.