PALATINE PAINTS

SAFETY DATA SHEET
Alkalinity Reducer

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name Alkalinity Reducer
Product No. BL12

Synonyms, Trade Names ALKALINITY REDUCER, HYDROGEN CHLORIDE SOLUTION, MURIATIC ACID, PICKLERS ACID, TA REDUCER, PROBE CLEANING FLUID

REACH Registration number 01-2119484862-27
CAS-No. 7647-01-0
EU Index No. 017-002-01-X
EC No. 231-595-7

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

Identified uses
Chemical
Chemical Intermediate
pH control
Cleaning agent.

1.3. Details of the supplier of the safety data sheet

Supplier
Palatine Paints & Chemicals Limited
55 Smallbrook Lane
Leigh, Lancashire,
WN7 5PZ, United Kingdom

+44 (0) 1942 884 122
sales@palatinepaints.co.uk

1.4. Emergency telephone number

Emergency Contact Number (Office Hours)
+44 1274 267346
Emergency Contact Number (Outside Office Hours)
+441865 407333
Sds No. 2287

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

	Physical and Chemical Hazards	Met. Corr. 1 - H290
	Human health	Skin Irrit. 2 - H315;Eye Irrit. 2 - H319;STOT SE 3 - H335
	Environment	Not classified.

Classification (67/548/EEC) Xi;R36/37/38.

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

2.2. Label elements

EC No. 231-595-7

Label In Accordance With (EC) No. 1272/2008

Signal Word Warning

Hazard Statements

H290	May be corrosive to metals.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Precautionary Statements

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+352	IF ON SKIN: Wash with plenty of soap and water.
P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338	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

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Product name	Alkalinity Reducer
REACH Registration number	01-2119484862-27
CAS-No.	7647-01-0
EU Index No.	017-002-01-X
EC No.	231-595-7

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

Ingestion

Provide rest, warmth and fresh air. Immediately rinse mouth and drink plenty of water (200-300 ml). Get medical attention.

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. Continue to rinse for at least 15 minutes and seek medical attention.

Eye contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention immediately. Continue to rinse.

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

Inhalation

Upper respiratory irritation.

Skin contact

Skin irritation.

Eye contact

Irritation of eyes and mucous membranes.

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

Get medical attention.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

5.2. Special hazards arising from the substance or mixture

Specific hazards

Hydrogen chloride (HCl).

5.3. Advice for firefighters

Special Fire Fighting Procedures

Water spray should be used to cool containers.

Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of spray mist and contact with skin and eyes. Provide adequate ventilation.

6.2. Environmental precautions

Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Absorb with inert, damp, non-combustible material, then flush area with water. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

6.4. Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet. Collect and dispose of spillage as indicated in section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid inhalation of vapours/spray and contact with skin and eyes. Provide good ventilation. Eye wash facilities and emergency shower must be available when handling this product.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place. Unsuitable containers: metals.

Storage Class

Corrosive storage.

7.3. Specific end use(s)

None.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
HYDROCHLORIC ACID 10%	WEL	1 ppm	2 mg/m3	5 ppm	8 mg/m3	

WEL = Workplace Exposure Limit.

DNEL

Industry	Inhalation.	Long Term	8	mg/m3
Industry	Inhalation.	Short Term	15	mg/m3

8.2. Exposure controls

Protective equipment

Process conditions

Provide eyewash, quick drench.

Engineering measures

Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours.

Respiratory equipment

If ventilation is insufficient, suitable respiratory protection must be provided.

Hand protection

Butyl rubber gloves are recommended. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

Eye protection

Wear approved safety goggles.

Other Protection

Wear rubber apron. Wear rubber footwear. Provide eyewash station and safety shower.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Fuming Liquid
Colour	Colourless to pale yellow.
Odour	Acidic.
Solubility	Soluble in water.
Initial boiling point and boiling range (°C)	108
Melting point (°C)	~ -10 @ 10% ~ -55 @20%
Relative density	>1.05 @ 15.5
Vapour pressure	11 mm Hg
pH-Value, Conc. Solution	1

9.2. Other information

Not known.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reaction with: Strong oxidising agents. Alkalis.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Metals

10.4. Conditions to avoid

Avoid excessive heat for prolonged periods of time.

10.5. Incompatible materials

Materials To Avoid

Strong alkalis. Strong oxidising substances. Other metals or alloys.

10.6. Hazardous decomposition products

Hydrogen chloride (HCl). Chlorine. Hydrogen.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Target Organs

Respiratory system, lungs

Inhalation

Irritating to respiratory system.

Ingestion

Liquid irritates mucous membranes and may cause abdominal pain if swallowed. May cause chemical burns in mouth, oesophagus and stomach.

Skin contact

Irritating to skin.

Eye contact

Irritating to eyes. Contact with concentrated chemical may very rapidly cause severe eye damage, possibly loss of sight.

Medical Symptoms

Extreme irritation of eyes and mucous membranes, including burning and tearing.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

12.1. Toxicity

LC 50, 96 Hrs, Fish mg/l	20.5
EC 50, 48 Hrs, Daphnia, mg/l	0.45

Acute Toxicity - Aquatic Plants

EC50 72 hours 0.73 mg/l

12.2. Persistence and degradability

Degradability
No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential
The product does not contain any substances expected to be bioaccumulating.

12.4. Mobility in soil

Mobility:
The product is soluble in water.

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

General information
Do not puncture or incinerate even when empty. Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.

13.1. Waste treatment methods

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

SECTION 14: TRANSPORT INFORMATION

General Full protective clothing should be worn when handling this product.

14.1. UN number

Un Number Road	1789
UN No. (IMDG)	1789
UN No. (ICAO)	1789

14.2. UN proper shipping name

Proper Shipping Name HYDROCHLORIC ACID

14.3. Transport hazard class(es)

ADR/RID/ADN Class	8
ADR/RID/ADN Class	Class 8: Corrosive substances.
ADR Label No.	8
IMDG Class	8
ICAO Class/Division	8

Transport Labels

14.4. Packing group

ADR/RID/ADN Packing group III

IMDG Packing group	III
ICAO Packing group	III

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant
No.

14.6. Special precautions for user

EMS	F-A, S-B
Emergency Action Code	2R
Hazard No. (ADR)	80
Tunnel Restriction Code	(E)

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

SECTION 15: REGULATORY INFORMATION

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

Statutory Instruments
The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).
Approved Code Of Practice
Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.
Guidance Notes
CHIP for everyone HSG(108). Workplace Exposure Limits EH40.
EU Legislation
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, including amendments.

15.2. Chemical Safety Assessment

A chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Revision Comments
NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision Date	29.10.2013
Revision	04
SDS No.	20287
Safety Data Sheet Status	Approved.
Date	06.08.2010
Signature	JH

Risk Phrases In Full

R36/37/38	Irritating to eyes, respiratory system and skin.

Hazard Statements In Full

H290	May be corrosive to metals.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.