Total Cleaning Supplies

PRODUCT INFORMATION SHEET

SUPER ALLOY CLEANER

PRODUCT INFORMATION:
A complex blend of acids & surfactants highly effective in removing black carbon dust, corrosion & dirt & brightening alloy wheels without damaging rubber or brake disks

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ADVANTAGES:

VERSATILE:	Super Alloy Cleaner may be used to clean & brighten alloys & other ferrous metals.
SUITABLE IN HARD OR SOFT WATER:	Even in the most hard water areas Alloy Cleaner is still exceptionally efficient in carbon, rust & corrosion removal & brightening metals
BIODEGRADABLE:	Readily biodegradable water based product.
LEAVES NO STREAKS:	Super Alloy Cleaner easily rinses off to leave a clean residue free surface

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DIRECTIONS FOR USE:
Dilute up to 1:5 with water. Spray or sponge onto wheel & allow 3 minutes to penetrate before rinsing with water. For stubborn or ingrained soiling agitate surface with a soft brush before rinsing. Do not use on chrome or brass.

HEALTH AND SAFETY:
See Safety Data Sheet.

PACKAGING:
All our plastic drums are high molecular weight; high-density polyethylene designed to bring the product to the customer in perfect conditions.
Size: 5Lt Drums, 20Lt Drums

QUALITY ASSURANCE:
This product is manufactured in Ireland to ISO 9002 quality standards & conforms to R.E.A.C.H & CLP regulations. Shelf life: Not less than 3 years.

Safety Data Sheet

Date of issue: 01.01.17 Replaces version of: 01.01.14

PRODUCT NAME: SUPER ALLOY CLEANER

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

1.1. Product identifier

Product Name SUPER ALLOY CLEANER
Product No. AC 110

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

Identified uses: Acid Based Cleaning agent

1.3. Details of the supplier of the safety data sheet

Supplier Total Cleaning Supplies
Limerick: 061 436 402 | Cork: 021 435 5262
sales@totalcleaningsupplies.ie
www.totalcleaningsupplies.ie

1.4. Emergency Contact: National Poisons Information Centre, Beaumont Hospital, Beaumont Road, Dublin 9. Tel: +353(01)8092566

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification: Regulation (EC) No 1272/2008: H314, H335
Human health: Causes severe skin burns & eye damage. May cause respiratory irritation
Environment: This product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.

2.2. Label elements

Detergent Labelling: Contains: Hydrochloric & Phosphoric Acid , Non-ionic surfactants.

DANGER

WARNING

Hazard Phrases
H314 Causes severe skin burns & eye damage
H335 May cause respiratory irritation

Precautionary Statements
P102 Keep out of the reach of children
P261 Avoid breathing vapours or spray mists
P262 Do not get in eyes, on skin or on clothing
P264 Wash hands thoroughly after handling
P271 Use only outdoors or in a well-ventilated area
P280 Wear protective gloves, clothing, eye & face protection
P302 IF ON SKIN: Remove contaminated clothing & rinse skin thoroughly with soap & water. Obtain medical attention if irritation persists
P304 IF INHALED: Remove immediately from source to fresh air. Obtain medical attention if any discomfort continues.
P305 IF IN EYES: Flush eyes with water, remove contact lenses if present & continue rinsing. Obtain medical attention if irritation persists.
P312 Call a poison centre or doctor/physician if you feel unwell
P403+ P233 Store in a well-ventilated place. Keep container tightly closed.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

HYDROCHLORIC ACID CAS-No.: 7647-01-0 EC No.: 231-595-7	10-15%
Classification (EC 1272/2008) Skin Corr. 1B - H314 STOT SE 3 - H335	

PHOSPHORIC ACID CAS-No.: 7664-38-2 EC No.: 231-633-2	15-20%
Classification (EC 1272/2008) Skin Corr. 1B - H314	

ALCOHOL ETHOXYLATE CAS-No.: 160901-19-9 EC No.: 931-954-4	1-5%
Classification (EC 1272/2008) Acute Tox. 4 - H302 Eye Dam. 1 - H318 Aquatic Acute 1 - H400	

A Full Text for all Hazard Statements are Displayed in Section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation: Remove immediately from source to fresh air. Obtain medical attention if any discomfort continues.

Skin Contact: Remove contaminated clothing & rinse skin thoroughly with soap & water. Obtain medical attention if irritation persists.

Eye Contact: Flush eyes with water immediately. Obtain medical attention if irritation persists.

Ingestion: Rinse out mouth immediately with water. Consult a doctor if irritation persists.

Protection of first aider: Avoid inhalation, contact with skin and eyes (see Section 8.)

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

Inhalation: Spray mists may cause coughing, chest tightness, feeling of chest pressure.

Ingestion: May cause discomfort if swallowed. May cause internal injury

Skin contact: May cause serious chemical burns to the skin.

Eye contact: Damaging to eyes & mucous membranes, including burning & tearing.

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

The severity of the symptoms described will vary dependant of the concentration and the length of exposure, first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

SECTION 5: FIRE FIGHTING MEASURES

5.1	Suitable Extinguishing Media:	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.
5.2	Unsuitable:	N/A
5.3	Specific Hazards:	Vaporises on heating to liberate highly irritating mists of hydrochloric acid. May decompose in a fire to generate irritating fumes. Attacks most metals, liberating flammable hydrogen gas, which may form an explosive mixture with air.
5.4	Special Equipment for the protection of Fire Fighters:	May generate toxic and explosive fumes in a fire, therefore fire fighters should wear self-contained breathing apparatus and full body protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1	Personal Precautions:	Avoid inhalation of spray mist & contact with skin and eyes. Provide adequate ventilation (see Section 8.)
6.2	Environmental Precautions:	If size of spillage warrants and has contaminated water courses, drains or vegetation - advise appropriate authorities.
6.3	Methods for Cleaning up:	Small Spills - Flush with water. Large Spills - Contain and collect spillage and absorb on to sand.

SECTION 7: HANDLING AND STORAGE

7.1 Handling

Technical Measures:	Eye wash facilities & emergency shower must be available when handling this product.
Safe Handling Advice:	Avoid inhalation of spray mist & contact with eyes and skin. Comply with instructions for use.

7.2 Storage

Technical Measures:	No special measures required.
Storage Conditions:	Store in a cool dry place.
Incompatible Products:	Alkalis, Strong Oxidizing Agents. Mild steel, cast iron, aluminium, aluminium alloys, brasses, tinned and galvanized materials are all attacked
Packaging:	Plastic Drums.
Packaging Materials:	Recommended: Plastic Materials, Polyethylene, Polypropylene. Not Suitable - Uncoated Metal Drums.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Engineering Measures: No special measures required.

8.2 Personal Protection Equipment:



Respiratory Protection: Provide adequate ventilation in areas of confined space. If engineering controls do not maintain airborne concentrations below recommended exposure limits, where applicable an air-purifying respirator type ABEK (EN 14387) respirator cartridges must be worn.

Hand Protection: Use Chemical Resistant Gloves to EN Standard 374 Level 1, Letter Code K

Eye Protection: Use Chemical Goggles or Face Shield to EN Standard 166 Level 3 or higher

Skin Protection: Wear Plastic Apron EN Standard 13034 Type PB[6] & Face Shield EN Standard 166 Level 3 or higher

8.3 Hygiene Measures: Handle in accordance with good industrial hygiene and safety practices.

8.4 Occupational Exposure Limits:

Name	STD	Occupational Exposure Limit Value (8-hour reference period)		Occupational Exposure Limit Value (15 minute reference period)		Notes
		ppm	mg/m3	ppm	mg/m3	
Hydrochloric Acid	OELV	5	8	10	15	IOELV
Phosphoric Acid	OELV		1		2	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

a)	Appearance:	Clear/Yellow Liquid.
b)	Odour:	Characteristic Pungent
c)	Odour threshold:	N/A
d)	pH:	1+/-0.5 (undiluted)
e)	Melting point / freezing point:	No data available
f)	Initial boiling point & boiling range:	No data available
g)	Flash point:	No data available
h)	Evaporation rate:	No data available
i)	Flammability solid, gas):	No data available
j)	Upper/lower flammability or explosive limits:	No data available
k)	Vapour pressure:	No data available
l)	Vapour density:	No data available
m)	Relative density:	1.15kg/dm3
n)	Solubility(ies):	Soluble in Water
o)	Partition coefficient: n-octanol/water:	No data available
p)	Auto-ignition temperature:	No data available
q)	Decomposition temperature:	No data available
r)	Viscosity:	No data available
s)	Explosive properties:	No data available

t) Oxidising properties: No data available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity:	There are no known reactivity hazards associated with this product.
10.2. Chemical stability:	Stable under normal temperature conditions and recommended use.
10.3. Possibility of hazardous reactions:	Contact with concentrated Sulphuric acid will liberate irritating fumes of Hydrogen Chloride Gas. Contact with conc. Nitric Acid liberates toxic fumes of Nitrosyl Chloride. Can liberate harmful gases from certain chemicals & Salts e.g. Cyanides, Nitrites, sulphites, Acetylides and Carbides. Reacts with oxidising agents to liberate toxic Chlorine Gas. Reactions with concentrated Alkalis generate much heat. Liberates Carbon Dioxide from carbonates and bicarbonates Corrosive to most metals
10.4. Conditions to avoid:	Avoid Extreme Temperatures. Avoid contact with alkalis &/or oxidising agents.
10.5. Incompatible materials:	Alkalis &/or oxidizing agents, most metals.
10.6. Hazardous decomposition products:	Hydrogen chloride (HCl).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects:

Inhalation: Irritating to respiratory system. Prolonged inhalation of high concentrations may damage respiratory system.

Ingestion: Causes burns. Swallowing concentrated chemical may cause severe internal injury. May cause chemical burns in mouth, oesophagus and stomach.

Skin contact: Corrosive and Irritating to skin. Will burn skin on contact

Eye contact: Risk of serious damage to eyes. Causes burns. Contact with concentrated chemical may very rapidly cause severe eye damage, possibly loss of sight.

HYDROCHLORIC ACID 36% (CAS-No.: 7647-01-0)

Acute toxicity:

Acute Toxicity (Oral LD50)
No LD50 available. Will immediately cause corrosion of & damage to the gastrointestinal tract
Acute Toxicity (Dermal LD50)
No LD50 available. Will immediately cause corrosion of & damage to the skin
Acute Toxicity (Inhalation LC50)
No LC50 4 hour available
LC50 Rat (5 min exposure to aerosol of aqueous solution) 45.6mg/l
LC50 Rat (30 min exposure to aerosol of aqueous solution) 8.3mg/l
REACH dossier information

PHOSPHORIC ACID (CAS: 7664-38-2)

Toxic Dose 1 - LD 50 >1530
Acute Toxicity (Dermal LD50)
>2740 mg/kg Rabbit
REACH dossier information

SECTION 12: ECOLOGICAL INFORMATION

Eco-toxicity

The product components are not classified as environmentally hazardous. However, this product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms. Large or frequent spills can have a harmful or damaging effect on the environment

12.1. Toxicity

Ecological information on ingredients:

HYDROCHLORIC ACID (CAS: 7647-01-0)

Acute Toxicity - Fish
LC50 96 hours 20.5 mg/l
Acute Toxicity - Aquatic Invertebrates
EC50 48 hours 0.45 mg/l Daphnia magna
Acute Toxicity - Aquatic Plants
EC50 72 hours 0.73 mg/l
REACH dossier information

PHOSPHORIC ACID (CAS: 7664-38-2)

Acute Toxicity - Fish
LC50 96 hours 702 µg/L Pimephales promelas (Fat-head Minnow)
Acute Toxicity - Aquatic Invertebrates
EC50 48 hours 0.67 mg/l Daphnia magna
Acute Toxicity - Aquatic Plants
EC50 72 hours 8 mg/l Desmodesmus subspicatus
REACH dossier information

12.2. Persistence and degradability

Degradability: The surfactant(s) contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Ecological information on ingredients.

HYDROCHLORIC ACID (CAS: 7647-01-0)

Degradability.
This product is expected to be easily biodegradable.

PHOSPHORIC ACID (CAS: 7664-38-2)

Toxic Dose 1 - LD 50 >1530
Acute Toxicity (Dermal LD50)
>2740 mg/kg Rabbit
REACH dossier information

12.3. Bioaccumulative potential

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

Ecological information on ingredients

HYDROCHLORIC ACID (CAS: 7647-01-0)

Bioaccumulative potential

The product does not contain any substances expected to be bioaccumulating

PHOSPHORIC ACID (CAS: 7664-38-2)

Degradability

This product mainly consists of inorganic compounds which are not biodegradable. The remaining compounds of the product are expected to be easily biodegradable.

12.4. Mobility in soil

Mobility: The product is soluble in water.

12.5. Results of PBT and vPvB assessment Not determined.

12.6. Other adverse effects Not determined.

SECTION 13: DISPOSAL CONSIDERATIONS

General information: Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority

13.1. Waste treatment methods

Dispose of waste in accordance with local regulations. Recover, reclaim or recycle, where possible.

SECTION 14: TRANSPORT INFORMATION

REGULATIONS	CLASS
RID/ADR:	8 / 5 b
ICAO/IATA-DGR:	8 UN 1789 PAX 809 CAO 813
GGVSee/IMDG-Code:	8 / 5b

14.1. UN number 1789

14.2. UN proper shipping name Hydrochloric Acid

14.3. Transport hazard class(es) Class 8: Corrosive substances

14.4. Packing Group II

14.5. Environmental Hazards

Environmentally Hazardous Substance/Marine Pollutant: N/A

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 N/A

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
Classification and Labelling of Substances and Preparations Dangerous for Supply.
6 / 7

Guidance Notes
Workplace Exposure Limits EH40.

EU Legislation
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 with amendments.

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

SECTION 16: OTHER INFORMATION

Revision Comments
Re-issued according to Regulation (EU) No 453/2010.
Revision Date: 01.01.17
Revision No: 4
Replaces version of: 01.01.14

Hazard Statements In Full

H302	Harmful if Swallowed
H314	Causes severe skin burns & eye damage
H318	Causes serious eye damage
H335	May cause respiratory irritation
H400	Very Toxic to aquatic life

The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should therefore not be construed as guaranteeing specific properties.