Alloy Shine

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Date of issue: 25/09/2013 Revision date: 07/08/2014 : Version: 1.22

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture

Product name : Alloy Shine

Product group : Blend

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

1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial
For professional use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

RBR Supplies
13-15 James Watt Place, College Milton
East Kilbride, G74 5HG
Tel: 01355 244344 Fax: 01355 224433
sales@rbrsupplies.co.uk - www.rbrsupplies.co.uk

1.4. Emergency telephone number

Emergency number : 0844 892 0111

Country	Organisation/Company	Address	Emergency number
UNITED KINGDOM	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0844 892 0111 (UK only)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin Corr. 1A H314

Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC

C; R35

R10

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :

GHS05

Signal word (CLP) : Danger

Hazardous ingredients : sodium hydroxide, caustic soda

Hazard statements (CLP) : H314 - Causes severe skin burns and eye damage

Precautionary statements (CLP) : P260 - Do not breathe dust/fume/gas/mist/vapours/spray
P264 - Wash ... thoroughly after handling
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
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/doctor/…
P321 - Specific treatment (see ... on this label)
P405 - Store locked up
P501 - Dispose of contents/container to ...

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Water	(CAS No) 7732-18-5 (EC no) 231-791-2	18 - 56	Not classified
sodium hydroxide, caustic soda	(CAS No) 1310-73-2 (EC no) 215-185-5 (EC index no) 011-002-00-6	1.3 - 8.64	C; R35
trisodium nitrilotriacetate	(CAS No) 5064-31-3 (EC no) 225-768-6 (EC index no) 607-620-00-6	0.75 - 5.6	Carc.Cat.3; R40 Xn; R22 Xi; R36
Amines, C12-18 (even numbered) -alkyldimethyl, N-oxides	(EC no) 931-341-1 (REACH-no) 01-2119489396-21	0.075 - 2.45	Xn; R22 Xi; R38 Xi; R41 N; R50
Coco Alkyl Dimethylbenzyl Ammonium Chloride	(CAS No) 63449-41-2 (EC no) 264-151-6 (EC index no) 612-140-00-5	0.015 - 1.75	Xn; R21/22 C; R34 N; R50
Praepagen HY	(CAS No) 85736-63-6 (EC no) 931-275-3 (REACH-no) 01-2119484688-17	0.012 - 1.4	Xn; R22 Xn; R48/22 C; R34 N; R50
Glycerine	(CAS No) 56-81-5 (EC no) 200-289-5	> 0.297	Not classified
1-methoxy-2-propanol, monopropylene glycol methyl ether	(CAS No) 107-98-2 (EC no) 203-539-1 (EC index no) 603-064-00-3	>= 0.14925	R10 R67
2-methoxypropanol	(CAS No) 1589-47-5 (EC no) 216-455-5 (EC index no) 603-106-00-0	< 0.0105	R10 Repr.Cat.2; R61 Xi; R41 Xi; R37/38

Name	Product identifier	Specific concentration limits
sodium hydroxide, caustic soda	(CAS No) 1310-73-2 (EC no) 215-185-5 (EC index no) 011-002-00-6	(0.5 =< C < 2) Xi;R36/38 (2 =< C < 5) C;R34 (C >= 5) C;R35
trisodium nitrilotriacetate	(CAS No) 5064-31-3 (EC no) 225-768-6 (EC index no) 607-620-00-6	(C >= 5) Carc. Cat. 3;R40

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Water	(CAS No) 7732-18-5 (EC no) 231-791-2	18 - 56	Not classified
sodium hydroxide, caustic soda	(CAS No) 1310-73-2 (EC no) 215-185-5 (EC index no) 011-002-00-6	1.3 - 8.64	Skin Corr. 1A, H314
trisodium nitrilotriacetate	(CAS No) 5064-31-3 (EC no) 225-768-6 (EC index no) 607-620-00-6	0.75 - 5.6	Carc. 2, H351 Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319
Amines, C12-18 (even numbered) -alkyldimethyl, N-oxides	(EC no) 931-341-1 (REACH-no) 01-2119489396-21	0.075 - 2.45	Not classified
Coco Alkyl Dimethylbenzyl Ammonium Chloride	(CAS No) 63449-41-2 (EC no) 264-151-6 (EC index no) 612-140-00-5	0.015 - 1.75	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1B, H314 Aquatic Acute 1, H400

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Praepagen HY	(CAS No) 85736-63-6 (EC no) 931-275-3 (REACH-no) 01-2119484688-17	0.012 - 1.4	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 STOT RE 2, H373 Aquatic Acute 1, H400
Glycerine	(CAS No) 56-81-5 (EC no) 200-289-5	> 0.297	Not classified
1-methoxy-2-propanol, monopropylene glycol methyl ether	(CAS No) 107-98-2 (EC no) 203-539-1 (EC index no) 603-064-00-3	>= 0.14925	Flam. Liq. 3, H226 STOT SE 3, H336
2-methoxypropanol	(CAS No) 1589-47-5 (EC no) 216-455-5 (EC index no) 603-106-00-0	< 0.0105	Flam. Liq. 3, H226 Repr. 1B, H360D STOT SE 3, H335 Skin Irrit. 2, H315 Eye Dam. 1, H318

Name	Product identifier	Specific concentration limits
sodium hydroxide, caustic soda	(CAS No) 1310-73-2 (EC no) 215-185-5 (EC index no) 011-002-00-6	(0.5 =< C < 2) Eye Irrit. 2, H319 (0.5 =< C < 2) Skin Irrit. 2, H315 (2 =< C < 5) Skin Corr. 1B, H314 (C >= 5) Skin Corr. 1A, H314
trisodium nitrilotriacetate	(CAS No) 5064-31-3 (EC no) 225-768-6 (EC index no) 607-620-00-6	(C >= 5) Carc. 2, H351

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

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

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

Symptoms/injuries : Causes severe skin burns and eye damage.

Symptoms/injuries after skin contact : Causes skin irritation.

Symptoms/injuries after eye contact : (corrosive).

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Reactivity in case of fire : Thermal decomposition generates : Corrosive vapours.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store aways from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact during pregnancy/while nursing.

Hygiene measures : Wash ... thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

Cleaning Agent.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

sodium hydroxide, caustic soda (1310-73-2)		
EU	IOELV STEL (mg/m³)	2 mg/m³
United Kingdom	WEL TWA (mg/m³)	2 mg/m³
United Kingdom	WEL STEL (mg/m³)	2 mg/m³
Glycerine (56-81-5)		
EU	IOELV TWA (mg/m³)	10 mg/m³ (EH40 WEL, Time Weighted Average (TWA))
1-methoxy-2-propanol, monopropylene glycol methyl ether (107-98-2)		
EU	IOELV TWA (mg/m³)	375
EU	IOELV TWA (ppm)	100 ppm
United Kingdom	WEL TWA (mg/m³)	375
United Kingdom	WEL TWA (ppm)	100
United Kingdom	WEL STEL (mg/m³)	560
United Kingdom	WEL STEL (ppm)	150 ppm

8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear protective gloves

Eye protection : Chemical goggles or face shield

Skin and body protection : Wear suitable protective clothing

Respiratory protection : Wear appropriate mask

Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Blue Liquid.

Colour : Blue. Colourless.

Odour : Mild Detergent. characteristic.

Odour threshold : No data available

pH : ≥ 13.1

Relative evaporation rate (butylacetate=1) : No data available

Melting point	:	No data available
Freezing point	:	No data available
Boiling point	:	≥ 100 °C
Flash point	:	No data available
Self ignition temperature	:	No data available
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	Non flammable.
Vapour pressure	:	No data available
Relative vapour density at 20 °C	:	No data available
Relative density	:	No data available
Density	:	≥ 1.12 g/l
Solubility	:	Soluble.
Log Pow	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosive properties	:	No data available
Oxidising properties	:	No data available
Explosive limits	:	No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Thermal decomposition generates : Corrosive vapours.

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. Thermal decomposition generates : Corrosive vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Glycerine (56-81-5)	
LD50 oral rat	12600 mg/kg
LD50 dermal rabbit	≥ 10000 mg/kg
Coco Alkyl Dimethylbenzyl Ammonium Chloride (63449-41-2)	
LD50 oral rat	≥ 795 mg/kg
LD50 dermal rat	≥ 1560 mg/kg
Amines, C12-18 (even numbered) -alkyldimethyl, N-oxides	
LD50 oral rat	2820 mg/kg
LD50 oral	2 mg/kg
trisodium nitrilotriacetate (5064-31-3)	
LD50 oral rat	1 - 2 g/kg
Praepagen HY (85736-63-6)	
LD50 oral rat	200 - 2000 mg/kg (Method: OECD 401)

Skin corrosion/irritation : Causes severe skin burns and eye damage.
Causes severe skin burns and eye damage
pH: ≥ 13.1

Serious eye damage/irritation	:	Eye damage, category 1, implicit Causes severe skin burns and eye damage pH: ≥ 13.1
Respiratory or skin sensitisation	:	Not classified Based on available data, the classification criteria are not met
Germ cell mutagenicity	:	Not classified Based on available data, the classification criteria are not met
Carcinogenicity	:	Not classified Based on available data, the classification criteria are not met
Reproductive toxicity	:	Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	:	Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (repeated exposure)	:	Not classified Based on available data, the classification criteria are not met
Aspiration hazard	:	Not classified Based on available data, the classification criteria are not met
Potential Adverse human health effects and symptoms	:	Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

sodium hydroxide, caustic soda (1310-73-2)	
LC50 fishes 1	125 mg/l Gambusia affinis
EC50 Daphnia 1	76 mg/l (Daphnia magna; 24 h)
LC50 fish 2	145 mg/l (Poecilia reticulata; 24 h)
Glycerine (56-81-5)	
LC50 fishes 1	54000 mg/l (Oncorhynchus mykiss; 96 hours)
LC50 other aquatic organisms 1	(Daphnia magna; 24 hours)
EC50 Daphnia 1	≥ 10000 mg/l
EC50 other aquatic organisms 1	≥ 1000 mg/l (activated sludge) (Toxicity to bacteria)
Coco Alkyl Dimethylbenzyl Ammonium Chloride (63449-41-2)	
LC50 fishes 1	96 h ≥ 1.7 mg/l
EC50 Daphnia 1	48 h ≥ 0.03 mg/l
EC50 Daphnia 2	96 h ≥ 0.06 mg/l
Amines, C12-18 (even numbered) -alkyldimethyl, N-oxides	
LC50 fishes 1	1.26 mg/l
EC50 Daphnia 1	2.4 mg/l
ErC50 (other aquatic plants)	0.19 mg/l
NOEC chronic fish	0.42 mg/l
trisodium nitrilotriacetate (5064-31-3)	
LC50 fishes 1	≥ 100 mg/l (96 hours)
EC50 Daphnia 1	≥ 100 mg/l (48 hours)
Praepagen HY (85736-63-6)	
LC50 fishes 1	4.2 mg/l (96 h, zebra fish)- Method: OECD 203
EC50 Daphnia 1	0.53 mg/l (48 h, Daphnia magna)- Method: OECD 202
NOEC (acute)	125 mg/kg (56 d, Eisenia foetida)- Method: OECD 222

12.2. Persistence and degradability

Alloy Shine	
Persistence and degradability	Not established.
Glycerine (56-81-5)	
Persistence and degradability	Readily biodegradable.
Biochemical oxygen demand (BOD)	0.87 g O^2/g substance
Chemical oxygen demand (COD)	1.16 g O^2/g substance
Biodegradation	82 % (Exposure Time: 20 d)

Coco Alkyl Dimethylbenzyl Ammonium Chloride (63449-41-2)	
Persistence and degradability	The substance is biodegradable. Unlikely to persist.
trisodium nitrilotriacetate (5064-31-3)	
Biodegradation	92 %
Praepagen HY (85736-63-6)	
Persistence and degradability	Not established.
Chemical oxygen demand (COD)	0.767 g O^2/g substance Method: DIN 38409-H41
Biodegradation	87 % (28 d)- Method: OECD 301 B

12.3. Bioaccumulative potential

Alloy Shine	
Bioaccumulative potential	Not established.

Coco Alkyl Dimethylbenzyl Ammonium Chloride (63449-41-2)	
Bioaccumulative potential	Not expected to bioaccumulate due to the low log Kow (log Kow < 4).
Praepagen HY (85736-63-6)	
Bioaccumulative potential	Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Not established.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Additional information : Avoid release to the environment

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to ...

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA

14.1. UN number

UN-No. (ADR) : 1823
UN-No. (IMDG) : Not applicable
UN-No.(IATA) : Not applicable
UN-No.(ADN) : Not applicable
UN-No. (RID) : Not applicable

14.2. UN proper shipping name

Proper Shipping Name (ADR) : SODIUM HYDROXIDE, SOLID
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable
Proper Shipping Name (ADN) : Not applicable
Proper Shipping Name (RID) : Not applicable
Transport document description (ADR) : UN 1823 SODIUM HYDROXIDE, SOLID, 8, II, (E)

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 8
Danger labels (ADR) : 8

:

IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

ADN

Transport hazard class(es) (ADN) : Not applicable

RID

Transport hazard class(es) (RID) : Not applicable

14.4. Packing group

Packing group (ADR) : II
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable
Packing group (ADN) : Not applicable
Packing group (RID) : Not applicable

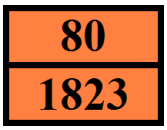
14.5. Environmental hazards

Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available

14.6. Special precautions for user

14.6.1. Overland transport

Classification code (ADR) : C6
Limited quantities (ADR) : 1kg
Excepted quantities (ADR) : E2
Packing instructions (ADR) : P002, IBC08
Special packing provisions (ADR) : B4
Mixed packing provisions (ADR) : MP10
Mixed Portable tank and bulk container instructions (ADR) : T3
Mixed Portable tank and bulk container special provisions (ADR) : TP33
ADR tank codes (ADR) : SGAN
Vehicle for tank carriage : AT
Transport category (ADR) : 2
Special provisions for carriage - Packages (ADR) : V11
Hazard identification number (Kemler No.) : 80
Orange plates :



Tunnel restriction code (ADR) : E
EAC code : 2W

14.6.2. Transport by sea

14.6.3. Air transport

14.6.4. Inland waterway transport

Not subjected to ADN : No

14.6.5. Rail transport

Carriage prohibited (RID) : No

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no substances with Annex XVII restrictions

Alloy Shine is not on the REACH Candidate List

Contains no REACH candidate substance

Contains no REACH Annex XIV substances.

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:
Revision - See : *.

Data sources : 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 mixturejs, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of R-, H- and EUH-phrases::

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — AcuteHazard, Category 1
Carc. 2	Carcinogenicity, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Repr. 1B	Reproductive toxicity, Category 1B
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H226	Flammable liquid and vapour
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H351	Suspected of causing cancer
H360D	May damage the unborn child
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
R10	Flammable
R21/22	Harmful in contact with skin and if swallowed
R22	Harmful if swallowed
R34	Causes burns
R35	Causes severe burns
R36	Irritating to eyes
R37/38	Irritating to respiratory system and skin
R38	Irritating to skin
R40	Limited evidence of a carcinogenic effect
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
R61	May cause harm to the unborn child
R67	Vapours may cause drowsiness and dizziness

C	Corrosive
N	Dangerous for the environment
Xi	Irritant
Xn	Harmful

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product