



SAFETY DATA SHEET

103/Q228 - OIL TOLERANT PRIMER - HARDENER

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

1.1. Product identifier

Product name 103/Q228 - OIL TOLERANT PRIMER - HARDENER

Product number 103/Q228/1 - HARDENER

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

Identified uses HARDENER FOR TWO COMPONENT PRIMER

1.3. Details of the supplier of the safety data sheet

Supplier

COO-VAR
Lockwood Street
Hull
HU2 0HN
+44 (0) 1482 328053(T)
+44 (0) 1482 219266(F)
info@coo-var.co.uk

Contact person Technical Department -, 08.30 - 16.30 hrs Mon - Thurs, 08.30 - 15.00 hrs Fri, as above

1.4. Emergency telephone number

Emergency telephone +44 (0) 1482 328053 (08.30 - 16.30 hrs Mon - Thurs, 08.30 - 15.00 hrs Fri)

SDS No. 11076

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Repr. 2 - H361f STOT RE 2 - H373

Environmental hazards Aquatic Chronic 2 - H411

Classification (67/548/EEC or 1999/45/EC) Xn;R22. Repr. Cat. 3;R62. C;R34. R43. R52/53.

2.2. Label elements

Pictogram



Signal word

Danger

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Hazard statements	<p>H302 Harmful if swallowed.</p> <p>H314 Causes severe skin burns and eye damage.</p> <p>H317 May cause an allergic skin reaction.</p> <p>H361f Suspected of damaging fertility.</p> <p>H373 May cause damage to organs through prolonged or repeated exposure.</p> <p>H411 Toxic to aquatic life with long lasting effects.</p>
Precautionary statements	<p>P260 Do not breathe vapour/ spray.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P301+P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.</p> <p>P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>
Contains	<p>BENZYL ALCOHOL, FORMALDEHYDE, POLYMER WITH BENZENEAMINE, HYDROGENATED, TOFA, REACTION PRODUCTS WITH TEPA, 4,4'-ISOPROPYLIDENEDIPHENOL, 3,6,9-TRIAZUNDECAMETHYLENDIAMINE, 3-AMINOPROPYLDIMETHYLAMINE, 2-PIPERAZIN-1-YLETHYLAMINE</p>
Supplementary precautionary statements	<p>P201 Obtain special instructions before use.</p> <p>P202 Do not handle until all safety precautions have been read and understood.</p> <p>P261 Avoid breathing vapour/ spray.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P270 Do not eat, drink or smoke when using this product.</p> <p>P272 Contaminated work clothing should not be allowed out of the workplace.</p> <p>P273 Avoid release to the environment.</p> <p>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P308+P313 IF exposed or concerned: Get medical advice/ attention.</p> <p>P310 Immediately call a POISON CENTER/ doctor.</p> <p>P314 Get medical advice/ attention if you feel unwell.</p> <p>P321 Specific treatment (see medical advice on this label).</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p> <p>P363 Wash contaminated clothing before reuse.</p> <p>P391 Collect spillage.</p> <p>P405 Store locked up.</p>

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

BENZYL ALCOHOL	10-30%
CAS number: 100-51-6	EC number: 202-859-9
Classification	Classification (67/548/EEC or 1999/45/EC)
Acute Tox. 4 - H302	Xn;R20/22
Acute Tox. 4 - H332	

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FORMALDEHYDE, POLYMER WITH BENZENEAMINE, HYDROGENATED		10-30%
CAS number: 135108-88-2		
Classification	Classification (67/548/EEC or 1999/45/EC)	
Acute Tox. 4 - H302	Xn;R22. C;R34. Xi;R41.	
Skin Corr. 1B - H314		
Eye Dam. 1 - H318		
TOFA, REACTION PRODUCTS WITH TEPA		10-30%
CAS number: 68953-36-6		
Classification		
Acute Tox. 4 - H302		
Skin Corr. 1C - H314		
Eye Dam. 1 - H318		
Skin Sens. 1 - H317		
STOT RE 2 - H373		
Aquatic Chronic 3 - H412		
3,6,9-TRIAZUNDECAMETHYLENDIAMINE		5-10%
CAS number: 112-57-2	EC number: 203-986-2	
Classification	Classification (67/548/EEC or 1999/45/EC)	
Acute Tox. 4 - H302	C;R34 Xn;R21/22 R43 N;R51/53	
Acute Tox. 4 - H312		
Skin Corr. 1B - H314		
Eye Dam. 1 - H318		
Skin Sens. 1 - H317		
Aquatic Chronic 2 - H411		
4,4'-ISOPROPYLIDENEDIPHENOL		5-10%
CAS number: 80-05-7		
Classification	Classification (67/548/EEC or 1999/45/EC)	
Eye Dam. 1 - H318	Repr. Cat. 3;R62. Xi;R37,R41. R43,R52.	
Skin Sens. 1 - H317		
Repr. 2 - H361f		
STOT SE 3 - H335		
2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL		1-5%
CAS number: 90-72-2	EC number: 202-013-9	
Classification	Classification (67/548/EEC or 1999/45/EC)	
Acute Tox. 4 - H302	Xn;R22 Xi;R36/38	
Skin Irrit. 2 - H315		
Eye Irrit. 2 - H319		

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2-PIPERAZIN-1-YLETHYLAMINE		1-5%
CAS number: 140-31-8		EC number: 205-411-0
Classification	Classification (67/548/EEC or 1999/45/EC)	
Acute Tox. 4 - H302	C;R34 Xn;R21/22 R43 R52/53	
Acute Tox. 4 - H312		
Skin Corr. 1B - H314		
Eye Dam. 1 - H318		
Skin Sens. 1 - H317		
Aquatic Chronic 3 - H412		
3-AMINOPROPYLDIMETHYLAMINE		1-5%
CAS number: 109-55-7		EC number: 203-680-9
Classification	Classification (67/548/EEC or 1999/45/EC)	
Flam. Liq. 3 - H226	R10 C;R34 Xn;R22 R43	
Acute Tox. 4 - H302		
Skin Corr. 1B - H314		
Eye Dam. 1 - H318		
Skin Sens. 1 - H317		
NONYLPHENOL		1-5%
CAS number: 25154-52-3		EC number: 246-672-0
M factor (Acute) = 1	M factor (Chronic) = 1	
Classification	Classification (67/548/EEC or 1999/45/EC)	
Acute Tox. 4 - H302	Repr. Cat. 3;R62,R63 C;R34 Xn;R22 N;R50/53	
Skin Corr. 1B - H314		
Eye Dam. 1 - H318		
Repr. 2 - H361fd		
Aquatic Acute 1 - H400		
Aquatic Chronic 1 - H410		

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

SECTION 4: First aid measures**4.1. Description of first aid measures**

General information	Get medical attention if any discomfort continues.
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. If breathing stops, provide artificial respiration. Place unconscious person on their side in the recovery position and ensure breathing can take place. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Consult a physician for specific advice.
Ingestion	Get medical attention immediately. Give a few small glasses of water or milk to drink. Never give anything by mouth to an unconscious person. Never give anything by mouth to an unconscious person. Do not induce vomiting. Do not induce vomiting.

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Skin contact	It is important to remove the substance from the skin immediately. Rinse immediately with plenty of water. Remove contaminated clothing. Continue to rinse for at least 15 minutes. Consult a physician for specific advice. Remove contaminated clothing and shoes. Contaminated leather should be discarded. Wash contaminated clothing before reuse.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.

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

General information Get medical attention promptly if symptoms occur after washing.

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

Notes for the doctor No specific recommendations. If in doubt, get medical attention promptly.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Use fire-extinguishing media suitable for the surrounding fire. Extinguish with the following media: Water spray, fog or mist. Foam, carbon dioxide or dry powder. Non flammable at room temperature, but will burn.

5.2. Special hazards arising from the substance or mixture

Specific hazards Toxic gases or vapours. Fire creates: Thermal decomposition or combustion products may include the following substances: Acrid smoke or fumes. Carbon monoxide (CO). Carbon dioxide (CO₂). Nitrous gases (NO_x).

5.3. Advice for firefighters

Protective actions during firefighting Avoid breathing fire gases or vapours. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure suitable respiratory protection is worn during removal of spillages in confined areas. Wear butyl rubber protective clothing and boots. Avoid contact with skin and eyes. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Exclude non-essential personnel. Open enclosed spaces to outside atmosphere.

6.2. Environmental precautions

Environmental precautions Avoid the spillage or runoff entering drains, sewers or watercourses. Contain spillage with sand, earth or other suitable non-combustible material. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

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Methods for cleaning up

Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Collect spillage with a shovel and broom, or similar and reuse, if possible. Place in metal containers for recovery or disposal. or Absorb spillage with inert, damp, non-combustible material. Flush contaminated area with plenty of water. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13. Large Spillages: Recover spilled material with a vacuum truck.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions

Read and follow manufacturer's recommendations. Persons susceptible to allergic reactions should not handle this product. Do not use in confined spaces without adequate ventilation and/or respirator. Spraying increases the risk of hazardous exposure. In atmospheres where the material is sprayed, workers should avoid contact with aerosols or mists containing these resins through engineering controls, such as exhaust ventilation. Avoid inhalation of vapours/spray and contact with skin and eyes. Wear goggles and face shield. DO NOT GET IN EYES. Other individuals working in the vicinity of the product where exposure can occur should be fitted with chemical splash goggles. Contaminated clothing should be properly laundered or disposed of in a manner that will not cause additional exposure. Workers should be strongly encouraged to follow good hygiene practices, such as thorough washing of hands, arms, neck and face. The Manual Handling Operations Regulations may apply to the handling of containers of this product. For products sold by weight refer to the guide net weight indicated on the container. Allowance will have to be made for the immediate packaging to give an approximate gross weight.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions

Keep container tightly closed. Keep containers upright. Protect from light. Store in closed original container at temperatures between 5°C and 25°C. Store away from the following materials: Oxidising materials. Acids. Alkalis.

Storage class

Miscellaneous hazardous material storage.

7.3. Specific end use(s)

Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.

Personal protection

Unprotected persons should be kept away from treated areas.

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Eye/face protection	Wear chemical splash goggles. The following protection should be worn: Full face visor or shield. Other individuals working in the vicinity of the product where exposure could occur should also be fitted with chemical splash goggles. Workers should not contact their eyes or skin with hands contaminated with the material.
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. It is recommended that gloves are made of the following material: Nitrile rubber. It should be noted that liquid may penetrate the gloves. Frequent changes are recommended.
Other skin and body protection	Wear suitable protective clothing as protection against splashing or contamination. Wear chemical protective suit.
Hygiene measures	Use engineering controls to reduce air contamination to permissible exposure level. Wash contaminated clothing before reuse. Wash at the end of each work shift and before eating, smoking and using the toilet.
Respiratory protection	When spraying, wear a suitable supplied-air respirator.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Amber.
Odour	Amine.
Initial boiling point and range	No information available.
Flash point	>105°C CC (Closed cup).
Evaporation rate	No information available.
Upper/lower flammability or explosive limits	No information available.
Vapour pressure	No information available.
Relative density	1.02 - 1.04 @ @ 20°C
Solubility(ies)	partially miscible
Auto-ignition temperature	No information available.

9.2. Other information

Volatile organic compound	This product contains a maximum VOC content of 91 g/litre.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	There are no known reactivity hazards associated with this product.
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10.2. Chemical stability

Stability	Stable at normal ambient temperatures and when used as recommended.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Will not occur
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10.4. Conditions to avoid

Conditions to avoid	Not relevant.
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10.5. Incompatible materials

Materials to avoid Strong oxidising agents. Organic peroxides/hydroperoxides. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion.

10.6. Hazardous decomposition products

Hazardous decomposition products Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 739.18

Acute toxicity - dermal

ATE dermal (mg/kg) 9,174.31

Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 44.0

Inhalation No significant hazard at normal ambient temperatures. Heating may generate the following products: Corrosive gases or vapours. Vapour from this product may be hazardous by inhalation.

Ingestion Harmful if swallowed. May cause chemical burns in mouth, oesophagus and stomach.

Skin contact Harmful in contact with skin. Causes burns.

Eye contact Causes burns. Risk of serious damage to eyes.

Acute and chronic health hazards The product contains an epoxy resin. May cause sensitisation or allergic reactions in sensitive individuals. A single exposure may cause the following adverse effects: Central nervous system depression. May cause sensitisation by skin contact. Over exposure, especially during spraying without the necessary precautions, entails risk of concentration- dependant irritating effects on eyes, nose, throat and respiratory tract.

Route of entry Inhalation Skin absorption. Ingestion. Skin and/or eye contact.

Medical symptoms Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Headache. Fatigue. Nausea, vomiting.

Medical considerations Skin disorders and allergies. Splash in eye requires examination by eye specialist.

Toxicological information

SECTION 12: Ecological Information

Ecotoxicity The product contains a substance which is very toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

12.1. Toxicity

12.2. Persistence and degradability

Persistence and degradability No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

12.4. Mobility in soil

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Mobility Not determined

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

Other adverse effects Not determined.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information	DO NOT reuse containers containing residual product without commercial cleaning. When handling waste, the safety precautions applying to handling of the product should be considered. Waste is classified as hazardous waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. May be incinerated in a suitable facility provided local regulations are observed.
Disposal methods	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Waste material and any included combustible absorbent and containers should be suitable for incineration at an approved facility.
Waste class	Used containers, drained and/or rigorously scraped out and containing dry residues of the supplied coating, are categorised as non-hazardous waste, with code 15 01 02 (plastic packaging) or 15 01 04 (metal packaging). Wear protective clothing during disposal operations. If disposal is by waste contractor, make sure that he has sufficient information and that waste containers are properly labelled. Ideally this component should be mixed with the appropriate resin base and allowed to react fully producing a solid non hazardous waste.

SECTION 14: Transport information

General This product is packed in accordance with the Limited Quantity Provisions of CDGCPL2, ADR and IMDG.

14.1. UN number

UN No. (ADR/RID) 2735

UN No. (IMDG) 2735

UN No. (ICAO) 2735

14.2. UN proper shipping name

Proper shipping name (ADR/RID) AMINES, LIQUID, CORROSIVE N.O.S.

Proper shipping name (IMDG) AMINES, LIQUID, CORROSIVE N.O.S.

Proper shipping name (ICAO) AMINES, LIQUID, CORROSIVE N.O.S.

Proper shipping name (ADN) AMINES, LIQUID, CORROSIVE N.O.S.

14.3. Transport hazard class(es)

ADR/RID class 8

ADR/RID subsidiary risk HAZARD ID 80

IMDG class Class 8

ICAO class/division Class 8

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Transport labels



14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III
ICAO packing group	III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



14.6. Special precautions for user

EmS	F-A S-B
Emergency Action Code	8
Tunnel restriction code	(E)

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

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

National regulations	The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).
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) (as amended). 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 (as amended).
Guidance	Workplace Exposure Limits EH40. CHIP for everyone HSG228. Safety Data Sheets for Substances and Preparations. Approved Classification and Labelling Guide (Sixth edition) L131. Dangerous Substances and Explosive Atmospheres Regulations 2002 [L138]

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision comments	Issued in new format for Reach compliance in accordance with EC 1272/2008 Issued in accordance with Annex II to REACH, as amended by Commission Regulation (EU) No. 453/2010 Update for CLP labelling. Correction to classification
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Issued by	Technical Dept. (P.E.)
Revision date	29/09/2015
Revision	5
Supersedes date	29/05/2015
SDS number	11076
SDS status	Approved.
Signature	Initials
Risk phrases in full	R10 Flammable. R20/22 Harmful by inhalation and if swallowed. R21/22 Harmful in contact with skin and if swallowed. R22 Harmful if swallowed. R34 Causes burns. R36/38 Irritating to eyes and skin. R37 Irritating to respiratory system. R41 Risk of serious damage to eyes. R43 May cause sensitisation by skin contact. R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R52 Harmful to aquatic organisms. R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R62 Possible risk of impaired fertility. R63 Possible risk of harm to the unborn child.
Hazard statements in full	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. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H361f Suspected of damaging fertility. H361fd Suspected of damaging fertility. Suspected of damaging the unborn child. H373 May cause damage to organs through prolonged or repeated exposure. 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. H412 Harmful to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.