Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Identifier

Product Form : Mixture
Product Name : Corrosion Inhibitor XP-1
Product Code : XP-1
Type of Product : Corrosion Inhibitor

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

Expert Range
Old Bank, The Triangle, Poulton,
BS32 7LE Bristol – United Kingdom
T: 0044 2036 273720 – F: 0044 8727 433720
support@expertrange.co.uk – www.expertrange.co.uk

1.4 Emergency telephone number

Emergency number : 0044 2036 273720

Section 2: Hazards Identification

2.1 Classification of the substance or mixture

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

Acute Tox. 4 (Oral) : H302
Full text of H-phrases : See section 16

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

O; R8
Xn; R22
Full text of H-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) : GHS07

Signal word (CLP) : Warning

Hazard statements (CLP) : H302 – Harmful if swallowed

Precautionary statements (CLP) : P264 - Wash hands thoroughly after handling
P270 - Do no eat, drink or smoke when using this product
P301+P312 - IF SWALLOWED: Call a POISON CENTER/doctor/…/if you feel unwell
P330 - Rinse mouth
P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste

EUH phrases : EUH210 – Safety data sheet available on request

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 67/659/EEC
Sodium Nitrite	(CAS No) 7632-00-0 (EC no) 231-555-9 (EC index no) 007-010-00-4	3 – 10	O; R8 T; R25 N; R50
Sodium Molybdate Dihydrate	(CAS No) 10102-40-6	1 – 3	Xi; R36/37/38

Name	Product Identifier	Specific Concentration Limits
Sodium Nitrite	(CAS No) 7632-00-0 (EC no) 231-555-9 (EC index no) 007-010-00-4	(1 =< C < 5) Xn;R22 (C >= 5) T;R25

Name	Product Identifier	%	Classification According to Regulation (EC) No. 1272/2008 [CLP]
Sodium Nitrite	(CAS No) 7632-00-0 (EC no) 231-555-9 (EC index no) 007-010-00-4	3 – 10	Ox. Sol. 2, H272 Acute Tox. 3 (Oral), H301 Eye Irrit. 2, H319 Aquatic Acute 1, H400
Sodium Molybdate Dihydrate	(CAS No) 10102-40-6	1 – 3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335

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 : Assure fresh air breathing. Allow the victim to rest.

First aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

First aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

First aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
Call a POISON CENTRE/doctor/physician if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/injuries after ingestion : Swallowing a small quantity of this material will result in serious health hazard.

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. Use extinguishing media appropriate for surrounding fire.

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

5.2 Special hazards arising from the substance or mixture

No additional information available

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 procautions

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

For containment : Stop leak without risks if possible.

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

Store away from other materials.

6.4 Reference to other sections

See Section 8: Exposure controls and personal protection.

Section 7: Handling and Storage

7.1 Precautions for safe handling

Precautions for safe handling : Provide good ventilation in process area to prevent formation of vapour.
Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from Direct sunlight.
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)

No additional information available

SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Sodium Molybdate Dihydrate (10102-40-6)		
United Kingdom	WEL TWA (mg/m³)	5 mg/m³
United Kingdom	WEL STEL (mg/m³)	10 mg/m³

8.2. Exposure controls

Personal protective equipment : Gloves. Protective goggles. Avoid all unnecessary exposure.

Hand protection : Wear protective gloves

Eye protection : Chemical goggles or safety glasses

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	: Clear, colourless liquid.
Colour	: Colourless.
Odour	: Characteristic.
Odour threshold	: No data available
pH	: 7,3 (1% solution)
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	: 1,047 g/cm³
Solubility	: Soluble in water.
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

No additional information available

10.2. Chemical stability

Stable under normal conditions.

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.

SECTION 11: Toxicological Information

11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed.

Sodium Nitrite (7632-00-0)	
LD50 oral rat	180 mg/kg bodyweight
Sodium Molybdate Dihydrate (10102-40-6)	
LD50 oral rat	4000 mg/kg

Skin corrosion/irritation : Not classified
Based on available data, the classification criteria are not met
pH: 7,3 (1% solution)

Serious eye damage/irritation : Not classified
Based on available data, the classification criteria are not met
pH: 7,3 (1% solution)

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 : Harmful if swallowed.

SECTION 12: Ecological Information

12.1. Toxicity

Sodium Nitrite (7632-00-0)	
LC50 Fishes 1	0,54 - 26,3 mg/l 96 hours, (Rainbow Trout)
EC50 Daphnia 1	15,4 mg/l 48 hours

12.2. Persistence and degradability

Corrosion Inhibitor XP-1	
Persistence and degradability	Not established.

Sodium Nitrite (7632-00-0)	
Persistence and degradability	Not established.
Sodium Molybdate Dihydrate (10102-40-6)	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

Corrosion Inhibitor XP-1	
Bioaccumulative potential	Not established.

Sodium Nitrite (7632-00-0)	
Bioaccumulative potential	Not established.
Sodium Molybdate Dihydrate (10102-40-6)	
Bioaccumulative potential	Not established.

12.4. Mobility in soil

No additional information available.

12.5. Results of PBT and vPvB assessment

Component	
Sodium Nitrite (7632-00-0)	PBT: not relevant – no registration required

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 a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport Information

In accordance with ADR / RID / IMDG / IATA

14.1. UN number

No dangerous good in sense of transport regulations

14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable

Proper Shipping Name (IMDG) : Not applicable

Proper Shipping Name (IATA) : Not applicable

Proper Shipping Name (ADN) : Not applicable

Proper Shipping Name (RID) : Not applicable

14.3. Transport hazard class(es)

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

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

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

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

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

14.4. Packing group

Packing group (ADR) : Not applicable

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

14.6.2. Transport by sea

14.6.3. Air transport

14.6.4. Inland waterway transport

Not subjected to AND : 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.

Corrosion Inhibitor WP 1222 is not on the REACH Candidate List.

Contains no REACH candidate substance.

Contains no REACH Annex XIV substances.

15.1.2. National regulations

Germany
Water hazard class (WGK) : 3 - Strongly hazardous to water.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other Information

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 mixtures, 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. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — AcuteHazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Ox. Sol. 2	Oxidising Solids, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H272	May intensify fire; oxidizer
H301	Toxic if swallowed
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H400	Very toxic to aquatic life
R22	Harmful if swallowed
R25	Toxic if swallowed
R36/37/38	Irritating to eyes, respiratory system and skin

R50	Very toxic to aquatic organisms
R8	Contact with combustible material may cause fire
N	Dangerous for the environment
O	Oxidising
T	Toxic
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.