AMMO SAFETY DATA SHEET (MSDS)

According to Regulation (UE) No 830/2015

A.MIG-2258 – U-RUST Rust Reactor Type 2

English	Revision date / valid from: 30/11/2021	Version: 1

1. Identification of the substance/mixture and of the company/undertaking

Trade Name	U-RUST Rust Reactor Type 2 (A.MIG-2258)
Use of the substance/Mixture	Additive on paint. Oxidant for metals in liquid form to be combined on top of Rectivo Type 1 (A.MIG-2257) to create oxidation effects with greenish colour shades, and in combination with oxide paints applied by brush or airbrush
Company	AMMO of Mig Jimenez, S.L.
Address	C/ Mauriain 3. 31132 Villatuerta, Navarra (España)
Telephone	+34 948 552 882
Email	info@migjimenez.com
Website	https://www.migjimenez.com

2. Hazards identification

2.1. Classification of the substance or mixture

According to Regulation (EU) No 1272/2008:

Aquatic Acute 1: Very toxic to aquatic organisms.

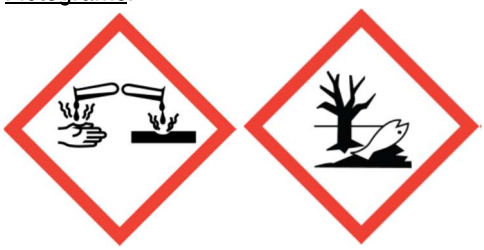
Aquatic Chronic 2: Toxic to aquatic life with long lasting effects.

Eye Dam. 1: Causes serious damage to eyes.

2.2. Label elements

Labelling according to Regulation (EU) No 1272/2008:

Pictograms:



Word of caution:

Danger

H-phrases:

H315 Causes skin irritation.

H318 Causes serious eye damage.

H400 Very toxic to aquatic organisms.

H411 Toxic to aquatic life with long lasting effects.

P-phrases:

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYE CONTACT: Rinse cautiously with water for several minutes. Remove contact lenses when present and easy to do so. Continue rinsing.

P310 Call a POISON CENTRE/doctor/... immediately

P362+P364 Remove contaminated garments and wash them before reuse.

P391 Collect spillage.
P501 Dispose of contents/container in ...

Contains:
Ammonia, anhydrous.
Oxidation activator.

2.3. Other hazards

Under normal conditions of use and in its original form, the product has no other negative effects on health and the environment.

3. Composition – Information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Substances that represent a health or environmental hazard according to Regulation (EC) No. 1272/2008, are assigned a Community workplace exposure limit, are classified as PBT/vPvB or are included in the Candidate List:

Identifiers	Name	Concentration	(*)Classification - Regulation 1272/2008	
			Classification	Specific concentration limits
	Oxidation activator	3 - 25 %	Acute Tox. 4, H302 - Aquatic Acute 1, H400 (M=10) - Aquatic Chronic 1, H410 - Eye Dam. 1, H318	–
N. Index: 007-001-00-5 N. CAS: 7664-41-7 N. CE: 231-635-3 N. register: 01-2119488876-14-XXXX	[1] ammonia, anhydrous	3 - 5 %	Acute Tox. 3 *, H331 - Aquatic Acute 1, H400 - Flam. Gas 2, H221 - Skin Corr. 1B, H314	

(*) The full text of the H-phrases is detailed in section 16 of this Safety Data Sheet.
* See Regulation (EC) No 1272/2008, Annex VI, section 1.2.
[1] Substance for which a Community workplace exposure limit applies (see section 8.1).

4. First aid measures

IRRITANT PREPARATION. Repeated or prolonged contact with skin or mucous membranes may cause irritant symptoms such as redness, blistering or dermatitis. Some of the symptoms may not be immediate. Allergic skin reactions may occur.

4.1. Descripción de los primeros auxilios

In cases of doubt, or when symptoms of discomfort persist, seek medical attention. Never administer anything by mouth to an unconscious person.

In case of skin contact:
Remove contaminated clothing. Wash skin vigorously with soap and water or a suitable skin cleanser. NEVER use solvents or thinners.

In case of contact with eyes:
Flush eyes thoroughly with clean, cool water for at least 10 minutes, pulling upward on eyelids seek medical attention. Do not allow the person to rub the affected eye.

In case of ingestion:
If accidentally swallowed, seek medical attention immediately. Keep at rest. NEVER induce vomiting.

In case of inhalation:
Place the person in fresh air, keep them warm and at rest, if breathing is irregular or stops, give artificial respiration.

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

Corrosive product, contact with eyes or skin may cause burns, ingestion or inhalation may cause internal injuries, in case of contact immediate medical assistance is required.
Contact with eyes may cause irreversible damage.

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

Immediate / special treatment

Seek medical advice immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting. If vomiting occurs, clear the airway. Cover the affected area with a dry sterile dressing. Protect the affected area from pressure or friction.

5. Firefighting measures

The product does not present any particular risk in case of fire.

5.1. Extinguishing media

Suitable extinguishing media:
Extinguishing powder or CO_2. In case of more serious fires also alcohol-resistant foam and water spray.
Unsuitable extinguishing media:
Do not use a direct water jet for extinguishing. In the presence of electrical voltage it is not acceptable to use water or foam as an extinguishing medium.

5.2. Special hazards arising from the substance or mixture

Special risks:
Fire may produce thick black smoke. As a result of thermal decomposition, hazardous products may be formed: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products may be harmful to health.

5.3. Recommendations for fire-fighting personnel

Cool tanks, cisterns or containers near the source of heat or fire with water. Take wind direction into account. Prevent products used in fire-fighting from entering drains, sewers or watercourses. Remnants of product and extinguishing media may contaminate the aquatic environment.

Fire protection equipment:
Depending on the size of the fire, heat protective suits, self-contained breathing apparatus, gloves, goggles or face shields and boots may be required.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For exposure control and personal protective measures, see section 8.

6.2. Environmental precautions

Environmentally hazardous product, in case of large spills or if the product contaminates lakes, rivers or sewers, inform the competent authorities according to local legislation. Avoid contamination of drains, surface or ground water and soil.

6.3. Methods and material for containment and cleaning up

Collect the spillage with non-combustible absorbent materials (earth, sand, vermiculite, diatomaceous earth...). Pour the product and the absorbent into a suitable container. The contaminated area must be cleaned immediately with a suitable decontaminant. Pour the decontaminant on the remains and leave it for several days until no reaction occurs, in an unsealed container.

6.4. Reference to other sections

For exposure control and personal protective measures, see section 8.
For waste disposal, follow recommendations in section 13.

7. Handling and storage

7.1. Precautions for safe handling

For personal protection, see section 8.
Smoking, eating and drinking must be prohibited in the area of application.
Comply with occupational health and safety legislation.
Never use pressure to empty containers, they are not pressure resistant containers. Keep the product in containers made of material identical to the original one.

7.2. Conditions for safe storage, including any incompatibilities

Store in accordance with local legislation. Observe label instructions. Store containers between 5 and 35°C, in a dry, well-ventilated place, away from heat sources and direct sunlight. Keep away from sources of ignition. Keep away from oxidizing agents and strongly acidic or alkaline materials. Do not smoke. Keep away from unauthorised persons. After opening, containers should be carefully resealed and placed upright to avoid spillage.

The product is not affected by Directive 2012/18/EU (SEVESO III).

7.3. Specific end use(s)

All other uses not specified in Section 1 of this entry.

8. Exposure controls / Personal protection

8.1. Control parameters

Occupational exposure limit for:

Name	N. CAS	Country	Limit value	ppm	mg/m3
ammonia, anhydrous	7664-41-7	Spain [1]	Eight hours	20	14
				50	36

		European Union [2]	Eight hours	20	14
				50	36

[1] According to the list of Environmental Occupational Exposure Limit Values adopted by the National Institute for Safety and Hygiene at Work (INSHT) for the year 2017.
[2] According to the binding occupational exposure limits (BOELV) and the indicative occupational exposure limits (IOELV) adopted by the Scientific Committee for Occupational Exposure Limits to Chemical Agents (SCOEL).

The product contains NO substances with Biological Limit Values.

DNEL/DMEL Concentration Levels:

Name	DNEL/DMEL	Type	Value
ammonia, anhydrous : 7664-41-7 : 231-635-3	DNEL (Workers)	Inhalation, Chronic, Local effects	14 (mg/m3)
	DNEL (Workers)	Inhalation, Chronic, Systemic effects	47,6 (mg/m3)

DNEL: Derived No Effect Level, the level of exposure to the substance below which no adverse effects are expected.

DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, which should be considered a tolerable minimum risk.

8.2. Controles de la exposición

Technical measures:
Provide adequate ventilation, which can be achieved by good local exhaust-ventilation and a good general exhaust system.

Concentration	100%
Uses	Additives on paints
Respiratory Protection:	
PPE	Filter mask for protection against gases and particles 
Features	≪CE≫ Marking Category III. The mask must have a wide field of vision and an anatomical shape to provide tightness and airtightness
CEN Standards	EN 136, EN 140, EN 405
Maintenance	Do not store in places exposed to high temperatures and humid environments before use. In particular, the condition of the inhalation and exhalation valves of the facepiece adapter must be checked
Remarks	The manufacturer's instructions regarding the use and maintenance of the equipment must be read carefully. The necessary filters shall be attached to the equipment according to the specific characteristics of the risk (Particles and aerosols: P1-P2-P3, Gases and vapours: A-B-E-K-AX) and shall be changed according to the manufacturer's recommendations
Type of filter required	A2
Hand protection:	
PPE	Work Gloves

Features	≪CE≫ Marking Category I	
CEN Standards	EN 374-1, En 374-2, EN 374-3, EN420	
Maintenance	They shall be stored in a dry place, away from possible sources of heat, and exposure to sunlight shall be avoided as far as possible. No modifications shall be made to the gloves that could alter their resistance, nor shall paints, solvents or adhesives be applied to them	
Remarks	Gloves should be the correct size and fit the hand without being too loose or too tight. They should always be worn with clean, dry hands	
Material: PVC (Polyvinyl Chloride)	Penetration time (min.): > 480	Thickness of material (mm): 0.35
Eye protection:		
PPE	Safety goggles and spectacles with full frame 	
Features	≪CE≫ Marking Category II. Full face shield for protection against splashing liquids, dust, fumes, mists and vapours	
CEN Standards	EN 165, EN 166, EN 167, EN 168	
Maintenance	Visibility through the eyepieces should be optimal and the eyepieces should be cleaned daily, the shields should be disinfected regularly according to the manufacturer's instructions	
Remarks	Indicators of deterioration can be: yellowing of the eyepieces, surface scratches on the eyepieces, tears, etc.	
Skin protection:		
PPE	Protective clothing	
Features	≪CE≫ Marking Category II. Protective clothing must not be tight or loose fitting so as not to interfere with the wearer's movements	
CEN Standards	EN 340	
Maintenance	Washing and care instructions provided by the manufacturer must be followed to ensure consistent protection	
Remarks	Protective clothing should provide a level of comfort consistent with the level of protection it is intended to provide against the risk it protects against, with the environmental conditions, the level of activity of the wearer and the intended duration of use	
PPE	Work footwear	
Features	≪CE≫ Marking Category II	
CEN Standards	EN ISO 13287, EN 20347	
Maintenance	These articles are adapted to the shape of the foot of the first user. For this reason, as well as for hygienic reasons, reuse by another person should be avoided	
Remarks	Work footwear for professional use is that which incorporates protective elements designed to protect the user from injuries that could cause accidents, it is necessary to review the work for which this footwear is suitable	

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance: Dark blue liquid
Colour: Dark blue
Odour: Slightly metallic
Olfactory threshold: N.D./N.A.
pH:9
Melting Point: N.D./N.A.
Boiling Point/Boiling Range: N.D./N.A.
Flash Point: N.D./N.A.
Evaporation rate: N.O.D./N.A.
Flammability (solid, gas): N.O.S./N.A.
Lower explosion limit: N.O./N.A.
Upper explosion limit: N.O.S./N.A.
Vapour pressure: N.D./N.A.
Vapour density: N.D./N.A.
Relative density: N.D./N.A.
Solubility: Soluble in water
Lipid solubility: N.D./N.A.
Water solubility: 100%
Partition coefficient (n-octanol/water): N.D./N.A.
Auto-ignition temperature: N.D./N.A.
Decomposition temperature: N.D./N.A.
Viscosity: N.D./N.A.
Explosive properties: N.O.D./N.A.
Oxidising properties: N.D./N.A.
N.D./N.A. = Not Available/Not Applicable due to the nature of the product.

9.2. Other information

Drop Point: N.D./N.A.
Scintillation: N.D./N.A.
Kinematic viscosity: N.D./N.A.
N.D./N.A. = Not Available/Not Applicable due to the nature of the product.

10. Stability and reactivity

10.1. Reactivity

The product presents no hazards due to its reactivity.

10.2. Chemical stability

Unstable in contact with:
- Acids.

10.3. Possibility of hazardous reactions

Neutralisation may occur in contact with acids.

10.4. Conditions to avoid
Avoid contact with acids.

10.5. Incompatible materials
Avoid the following materials:
- Acids.

10.6. Hazardous decomposition products
Depending on the conditions of use, the following products may be generated:
- corrosive vapours or gases.

11. Toxicological information
IRRITANT PREPARATION. Repeated or prolonged contact with skin or mucous membranes may cause irritant symptoms such as redness, blistering or dermatitis. Some of the symptoms may not be immediate. Allergic skin reactions may occur.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008
No tested data available for the product.
Repeated or prolonged contact with the product may cause removal of fat from the skin, resulting in non-allergic contact dermatitis and absorption of the product through the skin.
(a) acute toxicity;
Inconclusive data for classification.
Acute toxicity estimate (ATE):
Mixtures:
ATE (Oral) = 3.012 mg/kg
(b) Skin corrosion/irritation;
Product classified:
Skin irritant, Category 2: Causes skin irritation.
(c) Serious eye damage/eye irritation;
Product classified: Serious eye damage, Category 1: Causes serious eye damage.
(d) Respiratory or skin sensitisation;
Inconclusive data for classification.
(e) germ cell mutagenicity;
Data inconclusive for classification.
(f) carcinogenicity;
Data inconclusive for classification.
(g) reproductive toxicity;
Data inconclusive for classification.
(h) Specific target organ toxicity (STOT) - single exposure;
Data inconclusive for classification.
(i) Specific target organ toxicity (STOT) - repeated exposure;
Data inconclusive for classification.
(j) aspiration hazard;
Data inconclusive for classification.

12. Ecological information
12.1. Toxicity
No information is available on the Ecotoxicity of the substances present.

12.2. Persistence and degradability
No information is available on the biodegradability of the substances present.
No information is available on the degradability of the substances present.
No information is available on the persistence and degradability of the product.

12.3. Bioaccumulative potential
No information is available on bioaccumulation of the substances present.

12.4. Mobility in soil
No information on mobility in soil is available.
The product must not be allowed to enter sewers or watercourses.
Avoid penetration into the soil.

12.5. Results of PBT and rpm assesment
No information available on PBT and rpm assessment of the product.

12.6. Other adverse effects
No information available on other adverse effects on the environment.

13. Disposal considerations
13.1. Waste treatment methods
Discharge into sewers or watercourses is not permitted. Waste and empty containers must be handled and disposed of in accordance with local/national legislation.

Follow the provisions of Directive 2008/98/EC with regard to waste management.

14. Transport information
Not dangerous in transport. In case of accident and spillage proceed according to point 6.

14.1 ONU Number
Not dangerous in transport.

14.2 United Nations Transport Designation
Description:
ADR: Not dangerous in transport.
IMDG: Not dangerous in transport.
ICAO/IATA: Not dangerous in transport.

14.3 Transport hazard class(es)
Not dangerous in transport.

14.4 Packing group
Not dangerous in transport.

14.5 Environmental hazards
Not dangerous in transport.

14.6 Particular precautions for users
Not dangerous in transport.

14.7 Carriage in bulk according to Annex II of MARPOL and the IBC Code
Not dangerous in transport.

15. Regulatory information

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

The product is not concerned by Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.
Classification of the product according to Annex I of Directive 2012/18/EU (SEVESO III): N/A
The product is not affected by Regulation (EU) No 528/2012 concerning the placing on the market and use of biocidal products.
The product is not concerned by the procedure laid down in Regulation (EU) No 649/2012 concerning the export and import of dangerous chemicals.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out for the mixture.

16. Other information

Full text of H phrases appearing in Section 3.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H331 Toxic if inhaled.
H400 Very toxic to aquatic organisms.
H410 Very toxic to aquatic life with long lasting effects.

Classification codes:
Acute Tox. 3: Acute Inhalation Toxicity, Category 3
Acute Tox. 4: Acute Oral Toxicity, Category 4
Aquatic Acute 1: Acute Toxicity to the Aquatic Environment, Category 1
Aquatic Chronic 1: Aquatic Chronic 1: Chronic effects to the aquatic environment, Category 1
Aquatic Chronic 2: Aquatic Chronic 2: Chronic effects to the aquatic environment, Category 2
Eye Dam. 1: Serious eye damage, Category 1
Flam. Gas 2: Flammable gas, Category 2
Skin Corr. 1B: Skin Corrosive, Category 1B
Skin Irrit. 2: Skin Irritant, Category 2
Basic occupational health and safety training is recommended for proper handling of the product.

Abbreviations and acronyms used:
CEN: European Committee for Standardisation.
DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, to be considered as a minimum tolerable risk.
be considered as a minimum tolerable risk.
DNEL: Derived No Effect Level, level of exposure to the substance below which no adverse effects are expected.
PPE: Personal Protective Equipment.

Main bibliographical references and data sources:
http://eur-lex.europa.eu/homepage.html
http://echa.europa.eu/
Regulation (EU) 2015/830.
Regulation (EC) No 1907/2006.
Regulation (EU) No 1272/2008.

The information provided in this Safety Data Sheet has been drawn up in accordance with COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on 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.

The information in this Product Safety Data Sheet is based on current knowledge and current EC and national laws, in that the working conditions of the users are beyond our knowledge and control. The product must not be used for purposes other than those specified without first obtaining written instruction in its handling. It is always the responsibility of the user to take appropriate measures in order to comply with the requirements laid down in the relevant legislation.