

REACID 1

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878
Issue date: 22-05-23 Revision date: 22-05-23 Supersedes version of: 20-04-22 Version: 2.5

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

1.1. Product identifier

Product form : Mixture
Product name : REACID 1
UFI : SM7Y-N0GE-U007-X1CK
Product code : LIQ0921
Type of product : Detergent

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

1.2.1. Relevant identified uses

Main use category : Professional use

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

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BE- B-1348 Louvain-la-Neuve
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info@realco.be - www.realco.be

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
	ORFILA		+33 1 45 42 59 59	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin corrosion/irritation, Category 1 H314
Serious eye damage/eye irritation, Category 1 H318
Full text of H- and EUH-statements: 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
Contains : Phosphoric acid
Hazard statements (CLP) : H314 - Causes severe skin burns and eye damage.
H318 - Causes serious eye damage.
Precautionary statements (CLP) : P280 - Wear protective clothing, eye protection, face protection.
P301+P330+P331+P310 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
Immediately call a POISON CENTER, a doctor.

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P303+P361+P353+P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a doctor, a POISON CENTER.
P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor, a POISON CENTER.

2.3. Other hazards

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

Component	
2-methoxymethylethoxypropanol (34590-94-8)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

Component	
Colorant rouge 2G 200%	The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
phosphoric acid substance with a Community workplace exposure limit	CAS-No.: 7664-38-2 EC-No.: 231-633-2 EC Index-No.: 015-011-00-6 REACH-no: 01-2119485924-24	> 30	Skin Corr. 1B, H314
2-methoxymethylethoxypropanol substance with a Community workplace exposure limit	CAS-No.: 34590-94-8 EC-No.: 252-104-2 REACH-no: 01-2119450011-60	7 – 10	Not classified
Colorant rouge 2G 200% substance with a Community workplace exposure limit	-	< 0,1	Not classified

Specific concentration limits:

Name	Product identifier	Specific concentration limits
phosphoric acid	CAS-No.: 7664-38-2 EC-No.: 231-633-2 EC Index-No.: 015-011-00-6 REACH-no: 01-2119485924-24	(10 \leq C < 25) Eye Irrit. 2, H319 (10 \leq C < 25) Skin Irrit. 2, H315 (25 \leq C < 100) Skin Corr. 1B, H314

Full text of H- and EUH-statements: see section 16

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SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: If on skin, take off contaminated clothing. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove victim to fresh air. Allow affected person to breathe fresh air.
First-aid measures after skin contact	: Wash with plenty of water/.... Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, take medical advice.
First-aid measures after ingestion	: Rinse mouth. Immediately give plenty of water.

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

Symptoms/effects after inhalation	: Cough. Sore throat.
Symptoms/effects after skin contact	: Redness, pain. Burns.
Symptoms/effects after eye contact	: May cause severe irritation. Burns.
Symptoms/effects after ingestion	: Irritation of the linings of the mouth, throat, and gastrointestinal tract.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Alcohol resistant foam. Carbon dioxide. Water spray. Dry powder.
Unsuitable extinguishing media	: Do not use extinguishing media containing water.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Toxic and corrosive vapours are released.
Explosion hazard	: Product is not explosive.
Hazardous decomposition products in case of fire	: On heating/burning: release of toxic and corrosive gases/vapours (phosphorus oxides).

5.3. Advice for firefighters

Precautionary measures fire	: Self-contained breathing apparatus when in close proximity to fire.
Firefighting instructions	: Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment. Use water spray or fog for cooling exposed containers.
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

General measures	: Ensure adequate ventilation.
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6.1.1. For non-emergency personnel

Protective equipment	: Personal protection. See Section 8.
Emergency procedures	: Avoid all contact with skin, eyes, or clothing. Evacuate area.

6.1.2. For emergency responders

Protective equipment	: Avoid breathing dust/fume/gas/mist/vapours/spray. Equip cleanup crew with proper protection. See Section 8.
Emergency procedures	: Stop leak if safe to do so. Mark the danger area. Evacuate unnecessary personnel.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters.

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6.3. Methods and material for containment and cleaning up

For containment	: Dike the product for recovery.
Methods for cleaning up	: Absorb spillage to prevent material damage. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Use non-corrodable disposal containers. Rinse with plenty of water.
Other information	: Never return spills in original containers for possible later re-use. Use suitable disposal containers.

6.4. Reference to other sections

See Section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed	: Ensure adequate ventilation.
Precautions for safe handling	: Do not eat, drink or smoke when using this product. Do not get in eyes, on skin, or on clothing. Use personal protective equipment as required. Do not breathe gas/fumes/vapour/spray.
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Provide for a tub to collect spills.
Storage conditions	: Store in original container. Keep in a cool, well-ventilated place.
Incompatible products	: Strong bases. Reducing agents. Combustibles.
Incompatible materials	: May be corrosive to some metals.
Storage temperature	: 4 – 25 °C
Information on mixed storage	: Bases.
Storage area	: Store away from heat. Store in a well-ventilated place.
Special rules on packaging	: Do not store in corrodable metal.
Packaging materials	: PEHD. Synthetic material. Do not store in corrodable metal.

7.3. Specific end use(s)

Acid cleaning product, descaling agent.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Colorant rouge 2G 200%	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	10 mg/m ³
phosphoric acid (7664-38-2)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Orthophosphoric acid
IOEL TWA	1 mg/m ³
IOEL STEL	2 mg/m ³
France - Occupational Exposure Limits	
VME (OEL TWA)	2 mg/m ³
VME (OEL TWA) [ppm]	0,5 ppm

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phosphoric acid (7664-38-2)	
VLE (OEL C/STEL)	1 mg/m ³
VLE (OEL C/STEL) [ppm]	0,2 ppm
2-methoxymethylethoxypropanol (34590-94-8)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	(2-Methoxymethylethoxy)-propanol
IOEL TWA	308 mg/m ³
IOEL TWA [ppm]	50 ppm
Remark	Skin
France - Occupational Exposure Limits	
VLE (OEL C/STEL)	308 mg/m ³
VLE (OEL C/STEL) [ppm]	50 ppm

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Provide local exhaust or general room ventilation.

8.2.2. Personal protection equipment

Personal protective equipment:

Insulated gloves. Safety glasses. Gas mask with filter type E.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Eye protection (standard EN 166)

8.2.2.2. Skin protection

Skin and body protection:

Use chemically protective clothing

Hand protection:

Use neoprene or rubber gloves. ISO 374-1

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Gas mask with filter type E

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8.2.2.4. Thermal hazards

Thermal hazard protection:

No specific measures are necessary.

8.2.3. Environmental exposure controls

Environmental exposure controls:

Do not allow product to spread into the environment.

Other information:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: pink.
Odour	: Pungent.
Odour threshold	: The product has not been tested
Melting point	: The product has not been tested
Freezing point	: The product has not been tested
Boiling point	: The product has not been tested
Flammability	: Not applicable Non flammable.
Explosive properties	: Not applicable.
Explosive limits	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: The product has not been tested
Auto-ignition temperature	: The product has not been tested
Decomposition temperature	: The product has not been tested
pH	: 0 – 1
Viscosity, kinematic	: The product has not been tested
Viscosity, dynamic	: The product has not been tested
Solubility	: Material highly soluble in water.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Partition coefficient n-octanol/water (Log Pow)	: The product has not been tested
Vapour pressure	: The product has not been tested
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: 1,245 – 1,345
Relative vapour density at 20°C	: The product has not been tested
Particle characteristics	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Critical temperature	: The product has not been tested
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9.2.2. Other safety characteristics

Relative evaporation rate (butylacetate=1)	: Not applicable
Relative evaporation rate (ether=1)	: Not applicable
Additional information	: None

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts violently with : Bases. React violently in contact with oxidation agents.

10.2. Chemical stability

Stable in use and storage conditions as recommended in item 7.

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10.3. Possibility of hazardous reactions

Contact with metallic substances may release flammable hydrogen gas.

10.4. Conditions to avoid

High temperature.

10.5. Incompatible materials

Oxidizing agent. Bases.

10.6. Hazardous decomposition products

On burning: release of toxic and corrosive gases/vapours e.g.: (phosphorus oxides). Carbon oxides (CO, CO₂).

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Colorant rouge 2G 200%

LD50 oral rat	> 5000 mg/kg
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phosphoric acid (7664-38-2)

LD50 oral rat	2600 mg/kg
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LD50 dermal rabbit	2740 mg/kg
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2-methoxymethylethoxypropanol (34590-94-8)

LD50 oral rat	> 5000 mg/kg
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LD50 dermal rabbit	> 10000 mg/kg
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Skin corrosion/irritation : Causes severe skin burns.
pH: 0 – 1

Serious eye damage/irritation : Causes serious eye damage.
pH: 0 – 1

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

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Viscosity, kinematic	The product has not been tested
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11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : May cause pH changes in aqueous ecological systems.

Hazardous to the aquatic environment, short-term (acute) : Not classified

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Hazardous to the aquatic environment, long-term (chronic) : Not classified

Colorant rouge 2G 200%

LC50 - Other aquatic organisms [1]	> 100 mg/l 96 H-LC50 - Rainbow trout [mg/l]
IC50, algae	> 100 mg/l (72 Hours)

2-methoxymethylethoxypropanol (34590-94-8)

LC50, Fish, Pimephales promelas	> 10000 mg/l (96 Hours)
EC50, daphnia, Daphnia magna	> 100 mg/l (48 Hours)
EC50, algae	> 100 mg/l (72 Hours)

12.2. Persistence and degradability

Colorant rouge 2G 200%

Biodegradation	< 10 %
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2-methoxymethylethoxypropanol (34590-94-8)

Persistence and degradability	Biodegradable.
Biodegradation	77 – 84 % 28 days

12.3. Bioaccumulative potential

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Partition coefficient n-octanol/water (Log Pow)	The product has not been tested
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2-methoxymethylethoxypropanol (34590-94-8)

Bioaccumulative potential	Slightly or not bioaccumulative.
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12.4. Mobility in soil

2-methoxymethylethoxypropanol (34590-94-8)

Ecology - soil	Soluble in water.
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12.5. Results of PBT and vPvB assessment

Component

2-methoxymethylethoxypropanol (34590-94-8)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
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12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Disposal must be done according to official regulations.
Waste treatment methods	: Refer to manufacturer/supplier for information on recovery/recycling.
Product/Packaging disposal recommendations	: Dispose of contents/container to hazardous or special waste collection point. When totally empty, containers are recyclable like any other packing.

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Ecology - waste materials	: Avoid release to the environment. Collect all waste in suitable and labelled containers and dispose according to local legislation.
European List of Waste (LoW) code	: 20 01 29* - detergents containing dangerous substances
R code/ D code	: D9 - Physico-chemical treatment not specified elsewhere in this Annex which results in final compounds or mixtures which are discarded by means of any of the operations numbered D 1 to D 12 (e.g. evaporation, drying, calcination, etc.)

SECTION 14: Transport information

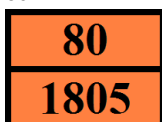
In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
UN 1805	UN 1805	UN 1805	UN 1805	UN 1805
14.2. UN proper shipping name				
PHOSPHORIC ACID, SOLUTION	PHOSPHORIC ACID SOLUTION	Phosphoric acid, solution	PHOSPHORIC ACID, SOLUTION	Not applicable
Transport document description				
UN 1805 PHOSPHORIC ACID, SOLUTION, 8, III, (E)	UN 1805 PHOSPHORIC ACID SOLUTION, 8, III	UN 1805 Phosphoric acid, solution, 8, III	UN 1805 PHOSPHORIC ACID, SOLUTION, 8, III	UN 1805 , 8
14.3. Transport hazard class(es)				
8	8	8	8	8
				
14.4. Packing group				
III	III	III	III	Not applicable
14.5. Environmental hazards				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available				

14.6. Special precautions for user

Overland transport

Classification code (ADR)	: C1
Limited quantities (ADR)	: 5I
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T4
Tank code (ADR)	: L4BN
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V12
Hazard identification number (Kemler No.)	: 80
Orange plates	:



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Tunnel restriction code (ADR) : E

Transport by sea

Special provisions (IMDG) : 223
Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : P001, LP01
IBC packing instructions (IMDG) : IBC03
Tank instructions (IMDG) : T4
Tank special provisions (IMDG) : TP1
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-B
Stowage category (IMDG) : A
Properties and observations (IMDG) : Miscible in water. Mildly corrosive to most metals.

Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y841
PCA limited quantity max net quantity (IATA) : 1L
PCA packing instructions (IATA) : 852
PCA max net quantity (IATA) : 5L
CAO packing instructions (IATA) : 856
CAO max net quantity (IATA) : 60L
Special provisions (IATA) : A3
ERG code (IATA) : 8L

Inland waterway transport

Classification code (ADN) : C1
Limited quantities (ADN) : 5 L
Excepted quantities (ADN) : E1
Carriage permitted (ADN) : T
Equipment required (ADN) : PP, EP
Number of blue cones/lights (ADN) : 0

Rail transport

No data available

14.7. Maritime transport in bulk according to IMO instruments

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

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

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Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Detergent Regulation (648/2004)

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

SECTION 16: Other information

Indication of changes			
Section	Changed item	Change	Comments
	Revision date	Modified	
	Issue date	Modified	
	Supersedes	Modified	

Full text of H- and EUH-statements:	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2

Safety Data Sheet (SDS), EU

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.