

MATERIAL SAFETY DATA SHEET**XENUM R-FLUSH**

Conform following 2001/58/EC

Date: 22/09/2009

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PRODUCT NAME: XENUM R-FLUSH**PRODUCT CODE:** 3147300**HAZARD LABELING (EC) PHRASES H- AND P-:** see section 15**TRANSPORT LABELING:** Non applicable**1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION****Product name:** Xenum R-FLUSH**Product code:** 3147300**Commercial use:** Radiator flushing additive.**Supplier:** XENUM N.V.
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B – 9200 Baasrode
Tel: +32 52 22 38 08
Fax: +32 52 22 51 60
e-mail: info@xenum.eu**Emergency telephone number:** +32 52 22 38 08**Responsible MSDS:** info@xenum.eu**2. IDENTIFICATION OF HAZARDS****Hazard description:** Xi Irritant**Information concerning particular hazards for human and environment:**




The product has to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

H 36 Irritating to eyes.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

3. COMPOSITION/INFORMATION ON INGREDIENTS**Chemical characterization****Description:** Mixture of substances listed below with nonhazardous additions.**Dangerous components:**

CAS: 5949-29-1	Acide Citrique Monohydrate  Xi; H 36	2.5 – 10 %
CAS: 67-63-0 EINECS: 200-661-7	PROPAN-2-OL  Xi,  F; H 11-36-67	2.5 – 10 %

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CAS: 77-92-9 EINECS: 201-069-1	Citric Acid  Xi, R 36	2.5 – 10 %
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Reach: All components are in line with Reach preregistration and registration.

4. FIRST AID

In serious accidents, call a doctor or medical emergency services.

ADVICE IN CASE OF:

- Inhalation:** Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
- Skin contact:** After skin contact, wash with plenty of soap and warm water, rinse thoroughly. DO NOT use solvents or thinners.
- Eye contact:** Wash immediately with copious quantities of water, holding the eyelids open for at least 15 minutes.
Refer the patient to an ophthalmologist, in particular if there is any redness, pain or visual impairment.
Regardless of the initial state, refer the patient to an ophthalmologist and show him the label.
- Ingestion:** Special treatment not usually necessary. Do not induce vomiting to prevent aspiration into the respiratory passages. Dilute stomach contents with plenty of water.
- Aspiration:** If there is suspicion that aspiration has occurred, after vomiting for example, send immediately to a hospital.

NOTES TO A PHYSICIAN: Treat symptomatically.

5. FIRE FIGHTING MEASURES

Not relevant. Product based on water.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions:** Avoid skin and eye contact. Wear gloves, goggles and an apron impervious to hydrocarbons in case of exposure. Surfaces are made slippery by the spread of this product.
- Environmental precautions:** Installations should be designed to take all necessary precautions to avoid pollution of water and soil. To minimise risk of pollution, sewers should be protected from ingress of spillage. In case of uncontrolled spread, warn the appropriate authorities that the situation cannot be quickly and efficiently controlled. Protect sensitive areas of the environment such as water resources.
- Clean up methods:** Recovery: Absorb with non-combustible absorbent materials (sand, earth, vermiculite, diatomaceous earth in drums for waste disposal).
Disposal: contaminated material should be handled by an authorized waste collector.

7. HANDLING AND STORAGE

HANDLING

- Technical measures:** Prevention of worker exposure: in case of possible formation of vapour, mists or aerosols, assure adequate ventilation. Adopt all practicable measures to reduce the risk of exposure, particularly to oils in service and used oils. Keep away from other combustible materials, store the product away from food and drink.
Prevention of fire and explosion: Open containers may hold inflammable or explosive vapour. Rags impregnated with the product, paper or material used to mop up spillage, present a fire risk. Do not allow these articles to accumulate dispose them safely immediately after use. Keep ignition sources away. Protect against electrostatic charges.

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Precautions:	Prolonged and repeated contact with the skin can provoke skin irritation, which is accentuated by small cuts or chaffing by soiled clothing – guard against splashing: after contact with the skin wash with warm water – do not breath vapours, mists or fumes – while using, do not eat, drink or smoke.
Handling advice:	No special requirements.
STORAGE	
Storage conditions:	<u>Recommendations:</u> Keep the container tightly closed in a dry place. Store at ambient temperature away from water and moisture. Keep containers closed when not in use. When designing installations, take all measures to avoid pollution of soil and water. <u>Avoid:</u> non-weatherproof storage.
Incompatible products:	Dangerous reactions with strong oxidants.
Packaging material:	<u>Recommendation:</u> Keep product in its original packaging. If it is necessary to transfer the material, ensure that all the required labels are on the new packaging.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures to reduce exposure:	If appropriate, use the product in good ventilation.
Other measures:	<u>Control parameters:</u> Exposure limits to oil mists: limit value 10mg/m ³ during 15 minutes. Average exposure limit to oil mists: 5 mg/m ³ during 8 hours.
Personal protection equipment:	<u>Breathing equipment:</u> Not necessary if room is well ventilated. <u>Protection for the hands:</u> Protective creams may be used for exposed skin, but they should not be applied after contact with the product. In the event of prolonged or repeated contact with the hands use appropriate gloves. <u>Protection to the eyes:</u> goggles recommended. Provide eye washes in workshops where the product is constantly handled. <u>Protection to the skin and other parts of the body:</u> where necessary, wear mask, boots, protective clothing, safety shoes for the handling of drums.
Hygiene methods:	Avoid prolonged and repeated contact with the skin, particularly with oils in use or used oils. After contact with the skin, wash with soap and warm water. Do not use abrasive products, solvents or fuels for cleaning. In case of contact with the eyes, wash immediately with copious quantities of water, holding the eyelids open for at least 15 minutes.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Fluid.
Colour:	According to product specification.
Odour:	Characteristic
Ph: 100 g/l	slightly acidic
Specific temperature for change of physical state:	Pour point: -3 °C. Boiling point: 99 °C.
Ignition temperature:	Undetermined
Flash point:	Not relevant, waterbased.
Explosive characteristics:	Product does not present an explosion hazard.
Explosion limits:	Not relevant, waterbased.
Vapour pressure at 20°C:	2hPa.
Density:	> 1 kg/m ³ at 20° C.
Solubility:	<u>In water:</u> dilutable. <u>Organic solvents:</u> 0%.

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10. STABILITY AND REACTIVITY

Stability:	Product is stable at normal use and storage temperatures in handling and use.
Dangerous reactions:	<u>Conditions to avoid:</u> Heat (temperature greater than the flash point), sparks, source of ignition, flames and static electricity. <u>Materials to avoid:</u> strong oxidants and strong acids. No dangerous reactions known.
Dangerous products of decomposition:	Products of incomplete combustion or thermal degradation produce more or less toxic gases such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot.

11. TOXICOLOGICAL INFORMATION

No data is available regarding the preparation itself.

Splashes in the eyes may cause irritation and reversible damage

It is generally agreed that substances contained are likely to cause, when applied to the eye of an animal, the appearance of major lesions which persist for at least twenty-four hours.

12. ECOLOGICAL INFORMATION

No ecological data on the product itself is available.

The product must not be allowed to run into drains or waterways.

General note: Water hazard class 1 (German Regulation)

13. DISPOSAL CONSIDERATIONS**Wastes or refuse:** Appropriate methods for elimination: the only ones authorized are registered waste recovery and recycling or incineration in approved installation.**Handling precautions:** Used containers: appropriate disposal method: send to an authorized waste disposal contractor. Refer to local regulations.
Local disposal: refer to local regulations.

14. TRANSPORT INFORMATION

Exempt from transport classification and labeling.

15. REGULATORY INFORMATION**Labeling according to EU guidelines:** The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.**Code letter and hazard designation of product:** Xi Irritant**Hazard statements:** 36 Irritating to eyes**Precautionary statements:** 2 Keep out of the reach of children.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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46 If swallowed, seek medical advice immediately and show this container or label.

Particular provisions:

Germany: Water hazard class 1
NFPA 704 Label: Health=2 Flammability=0
Instability=0 Special Hazards: none

This product is in line with all Reach requirements.

16. OTHER INFORMATION

This information is based on our present knowledge.

However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing MSDS:

Contact: info@xenum.eu

Date of circulation of this data sheet: 22/09/2009.

This data is complementary to the technical bulletin of use but does not replace it. The information contained herein is based on the state of our knowledge concerning the products as at the date indicated. It has been given in good faith. The user however, should be aware of subsequent risks that may arise if this product is used in a manner for which it is not being developed. However, this does not give a dispensation to the user not to have knowledge of and apply the appropriate regulations relating to his business. The sole responsibility lies with the user rather than the producer, the regulatory requirements assembled here are set down simply to help the final user fulfil his statutory obligations, however this listing should not be considered as exhaustive. The user must issue himself that he is taking all necessary obligations other than what is set down in the text here.
