



Radiator Flush

Safety Data Sheet

according to Regulation (EC) No. 453/2010

MSDS Version: E03.03

Date of issue: 29/01/2015

Blend Version: 6

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

1.1. Product identifier

Product name : Radiator Flush

Product code : W56064

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Cleaning of cooling systems from combustion engines.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Wynn's Belgium
Industriepark-West 46
9100 Sint-Niklaas - Belgium
T +32 3 766 60 20 - F +32 3 778 16 56
msds@wynns.eu - www.wynns.be

1.4. Emergency telephone number

Emergency number : BIG: +32(0)14/58.45.45

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Eye Irrit. 2 H319

Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

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) : H319 - Causes serious eye irritation

Precautionary statements (CLP) : P102 - Keep out of reach of children
P280 - Wear eye protection
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing
P337+P313 - If eye irritation persists: Get medical advice/attention

Detergent Regulation : Labelling of contents:(Regulation (EC) No. 648/2004 of 31 March 2004 on detergents):

Component	%
non-ionic surfactants, NTA (nitrilotriacetic acid) and salts thereof	<5%

2.3. Other hazards

No additional information available

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SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	% w	Classification according to Directive 67/548/EEC
Nitrilotriacetic acid trisodium salt monohydrate	(CAS No) 18662-53-8 (EC no) 225-768-6 (EC index no) 607-620-00-6	2,5 - 5	Carc.Cat.3; R40 Xn; R22 Xi; R36

iso-tridecanol ethoxylate	(CAS No) 69011-36-5 (EC no) 500-241-6 (REACH-no) 02-2119976362-32	1 - 2,5	Xi; R38 Xi; R41
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Name	Product identifier	Specific concentration limits
Nitrilotriacetic acid trisodium salt monohydrate	(CAS No) 18662-53-8 (EC no) 225-768-6 (EC index no) 607-620-00-6	(C >= 5) Carc. Cat. 3;R40

Name	Product identifier	% w	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Nitrilotriacetic acid trisodium salt monohydrate	(CAS No) 18662-53-8 (EC no) 225-768-6 (EC index no) 607-620-00-6	2,5 - 5	Carc. 2, H351 Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319
iso-tridecanol ethoxylate	(CAS No) 69011-36-5 (EC no) 500-241-6 (REACH-no) 02-2119976362-32	1 - 2,5	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412

Name	Product identifier	Specific concentration limits
Nitrilotriacetic acid trisodium salt monohydrate	(CAS No) 18662-53-8 (EC no) 225-768-6 (EC index no) 607-620-00-6	(C >= 5) Carc. 2, H351

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	: Check the vital functions. Victim conscious with laboured breathing: half-seated. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Vomiting: prevent asphyxia/aspiration pneumonia. Victim in shock: on his back with legs slightly raised. Keep watching the victim. Give psychological aid. Prevent cooling by covering the victim (no warming up). Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.
First-aid measures after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact	: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention.
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: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell. Ingestion of large quantities: immediately to hospital.

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

No additional information available

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	: All extinguishing agents can be used.
Unsuitable extinguishing media	: None to our knowledge. If there is a fire close by, use suitable extinguishing agents.

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5.2. Special hazards arising from the substance or mixture

Fire hazard : No fire hazard.

5.3. Advice for firefighters

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

Protective equipment : Safety glasses. Gloves.

Emergency procedures : Mark the danger area. Take off contaminated clothing and wash before reuse.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

For containment : Contain leaking substance, pump over in suitable containers.

Methods for cleaning up : Take up liquid spill into inert absorbent material. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Contaminated surfaces: clean (treat) with an excess of water.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : meet the legal requirements. Avoid exposure - obtain special instructions before use. Store in a closed container. Presents no particular risk when handled in accordance with good occupational hygiene practice.

Hygiene measures : Observe normal hygiene standards. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep out of frost.

Storage conditions : Keep container tightly closed. Meet the legal requirements.

Heat and ignition sources : Keep away from heat.

Storage area : Meet the legal requirements.

Special rules on packaging : correctly labelled. Keep only in original container.

7.3. Specific end use(s)

Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Does not require any specific or particular technical measures.

Personal protective equipment : Gloves. Safety glasses.



Hand protection : Neoprene, nitrile, PVC (Polyvinyl chloride). Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer.

Other information : Breakthrough time : >30'. Thickness of the glove material >0.1 mm.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: light green. transparent.
Odour	: No data available
Odour threshold	: No data available
pH	:
Relative evaporation rate (butylacetate=1)	: No data available
refraction index	: 1,356
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density @20°C	: 1067 kg/m ³
Solubility	: Soluble in water.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic @40°C	: No data available
Viscosity, dynamic @40°C	: No data available
Viscosity	:
Viscosity Index	:
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

Additional information	: The physical and chemical data in this section are typical values for this product and are not intended as product specifications.
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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

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified
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Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

Nitrilotriacetic acid trisodium salt monohydrate (18662-53-8)

Threshold limit other aquatic organisms 1 800 mg/l (24 h; Daphnia magna; ANHYDROUS FORM)

12.2. Persistence and degradability

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Persistence and degradability The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Nitrilotriacetic acid trisodium salt monohydrate (18662-53-8)

Persistence and degradability Readily biodegradable in water. Biodegradable in the soil.

12.3. Bioaccumulative potential

Nitrilotriacetic acid trisodium salt monohydrate (18662-53-8)

Bioaccumulative potential Bioaccumulation: not applicable.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Remove to an authorized waste treatment plant.

SECTION 14: Transport information

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

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

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14.6. Special precautions for user

14.6.1. Overland transport

No additional information available

14.6.2. Transport by sea

No additional information available

14.6.3. Air transport

No additional information available

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

Radiator Flush is not on the REACH Candidate List

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

Water hazard class (WGK) : 2 - hazard to waters

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

Acute Tox. 4 (Oral)

Aquatic Chronic 3

Carc. 2

Eye Dam. 1

Eye Irrit. 2

Skin Irrit. 2

H302

H315

H318

H319

H351

H412

R22

R36

R38

R40

R41

Xi

Xn

Acute toxicity (oral), Category 4

Hazardous to the aquatic environment — Chronic Hazard, Category 3

Carcinogenicity, Category 2

Serious eye damage/eye irritation, Category 1

Serious eye damage/eye irritation, Category 2

Skin corrosion/irritation, Category 2

Harmful if swallowed

Causes skin irritation

Causes serious eye damage

Causes serious eye irritation

Suspected of causing cancer

Harmful to aquatic life with long lasting effects

Harmful if swallowed

Irritating to eyes

Irritating to skin

Limited evidence of a carcinogenic effect

Risk of serious damage to eyes

Irritant

Harmful

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