# SAFETY DATA SHEET
## TYRE GUARD

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

#### 1.1. Product identifier

**Product name**
TYRE GUARD

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

**Identified uses**
Emergency tyre inflator

**Uses advised against**
Use only for intended applications.

#### 1.3. Details of the supplier of the safety data sheet

**Supplier**
GARDX INTERNATIONAL LTD
UNIT 7 CLOVELLY BUSINESS PARK
CLOVELLY ROAD
SOUTHBORNE, EMSWORTH
HANTS
PO10 8PE
+44 (0)1243 376426
product@gardx.co.uk

AUTOMOTOSOL S.R.O
RYBNA 716/24
PRAHA 1
110 00
CZECH REPUBLIC
+420 222 703288

#### 1.4. Emergency telephone number

**Emergency telephone**
+44 (0) 777 8505 330 (24 hrs).

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

**Classification (EC 1272/2008)**

**Physical hazards**
Aerosol 2 - H223, H229

**Health hazards**
Not Classified

**Environmental hazards**
Not Classified

#### 2.2. Label elements

**Hazard pictograms**

![Warning Symbol]

**Signal word**
Warning
TYRE GUARD

Hazard statements
EUH208 Contains Mixture of 5-chloro-2-methyl-2H- isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (Mixture of CMIT/MIT). May produce an allergic reaction.
H223 Flammable aerosol.
H229 Pressurised container: may burst if heated.

Precautionary statements
P102 Keep out of reach of children.
P101 If medical advice is needed, have product container or label at hand.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
P501 Dispose of contents/ container in accordance with national regulations.

UFI
UFI: HJ41-E0F4-H004-8J5V

2.3. Other hazards
This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

<table>
<thead>
<tr>
<th>Petroleum gases, liquefied</th>
<th>30-60%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 68476-85-7</td>
<td>EC number: 270-704-2</td>
</tr>
</tbody>
</table>

Classification
Flam. Gas 1A - H220
Press. Gas (Liq.) - H280

<table>
<thead>
<tr>
<th>Mixture of 5-chloro-2-methyl-2H- isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (Mixture of CMIT/MIT)</th>
<th>&lt;1%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 55965-84-9</td>
<td></td>
</tr>
<tr>
<td>M factor (Acute) = 100</td>
<td></td>
</tr>
<tr>
<td>M factor (Chronic) = 100</td>
<td></td>
</tr>
</tbody>
</table>

Classification
Acute Tox. 3 - H301
Acute Tox. 3 - H311
Acute Tox. 3 - H331
Skin Corr. 1C - H314
Eye Dam. 1 - H318
Skin Sens. 1A - H317
Aquatic Acute 1 - H400
Aquatic Chronic 1 - H410

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures
General information
Show this Safety Data Sheet to the medical personnel.
**TYRE GUARD**

**Inhalation**

If spray/mist has been inhaled, proceed as follows. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.

**Ingestion**

Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention.

**Skin contact**

Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

**Eye contact**

Rinse immediately with plenty of water. Get medical attention if any discomfort continues.

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

**Inhalation**

Upper respiratory irritation. Drowsiness, dizziness, disorientation, vertigo.

**Ingestion**

Gastrointestinal symptoms, including upset stomach.

**Skin contact**

May cause an allergic skin reaction.

**Eye contact**

May cause eye irritation.

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

**Notes for the doctor**

Treat symptomatically.

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**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

Extinguish with foam, carbon dioxide, dry powder or water fog.

**5.2. Special hazards arising from the substance or mixture**

**Specific hazards**

Flammable aerosol. Pressurised container: may burst if heated

**Hazardous combustion products**

Thermal decomposition or combustion products may include the following substances:

- Carbon monoxide (CO).
- Carbon dioxide (CO2).

**5.3. Advice for firefighters**

**Protective actions during firefighting**

Use water to keep fire exposed containers cool and disperse vapours. Evacuate area.

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**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

**Personal precautions**

Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Avoid contact with skin, eyes and clothing. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Avoid inhalation of vapours. Take care as floors and other surfaces may become slippery. Avoid contact with contaminated tools and objects. If aerosol cans are ruptured, care should be taken due to the rapid escape of the pressurised contents and propellant. Do not touch or walk into spilled material. If ventilation is inadequate, suitable respiratory protection must be worn. Take precautionary measures against static discharges. Do not handle broken packages without protective equipment. Wash thoroughly after dealing with a spillage.

**6.2. Environmental precautions**

**Environmental precautions**

Do not discharge into drains or watercourses or onto the ground.

**6.3. Methods and material for containment and cleaning up**
TYRE GUARD

Methods for cleaning up
Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Eliminate all ignition sources if safe to do so. Provide adequate ventilation. Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Do not touch or walk into spilled material. Wash thoroughly after dealing with a spillage.

6.4. Reference to other sections
Reference to other sections
Wear protective clothing as described in Section 8 of this safety data sheet.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Usage precautions
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe vapour/spray. Do not expose to temperatures exceeding 50°C/122°F. Do not spray on an open flame or other ignition source. Provide adequate ventilation. Use only outdoors or in a well-ventilated area. Do not pierce or burn, even after use. Avoid contact with skin, eyes and clothing. Avoid release to the environment. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities
Storage precautions
Store at temperatures between 4°C and 40°C. Do not expose to temperatures exceeding 50°C/122°F. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Storage class
Flammable compressed gas storage.

7.3. Specific end use(s)
Specific end use(s)
The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters
Occupational exposure limits
Petroleum gases, liquefied
Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1750 mg/m³
Short-term exposure limit (15-minute): WEL 1250 ppm 2180 mg/m³
WEL = Workplace Exposure Limit.

8.2. Exposure controls
Protective equipment
Appropriate engineering controls
Provide adequate ventilation.

Eye/face protection
Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with European Standard EN166. The following protection should be worn: Tight-fitting safety glasses.
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Hand protection
Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with European Standard EN374. The selected gloves should have a breakthrough time of at least 4 hours. The breakthrough time for any glove material may be different for different glove manufacturers. When used with mixtures, the protection time of gloves cannot be accurately estimated. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Protective gloves should have a minimum thickness of 0.15 mm. Glove thickness is not necessarily a good measure of glove resistance as the permeation rate will depend on the exact glove composition. The choice of protective gloves depends upon the chemicals being handled, and the conditions of work and use. Repeated exposure to chemicals will degrade the ability of the glove to provide resistance to chemicals. Specific work environments and material handling practices may vary, therefore safety procedures should be developed for each intended application. Gloves made from the following material may provide suitable chemical protection: Nitrile rubber. Neoprene. Rubber (natural, latex).

Hygiene measures
Wash hands after handling.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Aerosol.</td>
</tr>
<tr>
<td>Colour</td>
<td>White.</td>
</tr>
<tr>
<td>Odour</td>
<td>Mild.</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>Not determined.</td>
</tr>
<tr>
<td>pH</td>
<td>pH (concentrated solution): 7.5</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Initial boiling point and range</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Evaporation factor</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Other flammability</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Dispersible in water.</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Auto-Ignition temperature</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>There are no chemical groups present in the product that are associated with explosive properties.</td>
</tr>
</tbody>
</table>
TYRE GUARD

Oxidising properties
There are no chemical groups present in the product that are associated with oxidising properties.

Comments
Information declared as "Not available" or "Not applicable" is not considered to be relevant to the implementation of the proper control measures.

9.2. Other information
Other information
Not determined.

SECTION 10: Stability and reactivity

10.1. Reactivity
Reactivity
There are no known reactivity hazards associated with this product.

10.2. Chemical stability
Stability
Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions
Possibility of hazardous reactions
Not determined.

10.4. Conditions to avoid
Conditions to avoid
Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials
Materials to avoid
No specific material or group of materials is likely to react with the product to produce a hazardous situation.

10.6. Hazardous decomposition products
Hazardous decomposition products
Thermal decomposition or combustion products may include the following substances: Carbon monoxide (CO). Carbon dioxide (CO2).

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity - oral
Notes (oral LD₅₀)
Based on available data the classification criteria are not met.

Acute toxicity - dermal
Notes (dermal LD₅₀)
Based on available data the classification criteria are not met.

Acute toxicity - inhalation
Notes (inhalation LC₅₀)
Based on available data the classification criteria are not met.

Skin corrosion/irritation

Serious eye damage/irritation

Respiratory sensitisation

Skin sensitisation

Germ cell mutagenicity

Based on available data the classification criteria are not met.
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Genotoxicity - in vitro

Does not contain any substances known to be mutagenic.

Carcinogenicity

Does not contain any substances known to be carcinogenic.

Reproductive toxicity

Reproductive toxicity - fertility

Does not contain any substances known to be toxic to reproduction.

Specific target organ toxicity - single exposure

STOT - single exposure

Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure

Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard

Not anticipated to present an aspiration hazard, based on chemical structure.

Inhalation

Upper respiratory irritation. Drowsiness, dizziness, disorientation, vertigo.

Ingestion

Gastrointestinal symptoms, including upset stomach.

Skin contact

May cause an allergic skin reaction.

Eye contact

May cause eye irritation.

Acute and chronic health hazards

Defatting, drying and cracking of skin. Headache. Irritation of eyes and mucous membranes.

Route of exposure

Inhalation Skin and/or eye contact

Target organs

Respiratory tract Skin Eyes

Medical symptoms


Toxicological information on ingredients.

Petroleum gases, liquefied

<table>
<thead>
<tr>
<th>Acute toxicity - inhalation</th>
<th>21.6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity inhalation (LC₅₀ vapours mg/l)</td>
<td>21.6</td>
</tr>
<tr>
<td>Species</td>
<td>Rat</td>
</tr>
<tr>
<td>ATE inhalation (vapours mg/l)</td>
<td>21.6</td>
</tr>
</tbody>
</table>

Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (Mixture of CMIT/MIT)

<table>
<thead>
<tr>
<th>Acute toxicity - oral</th>
<th>53.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity oral (LD₅₀ mg/kg)</td>
<td>53.0</td>
</tr>
<tr>
<td>Species</td>
<td>Rat</td>
</tr>
<tr>
<td>Notes (oral LD₅₀)</td>
<td>Estimated value.</td>
</tr>
<tr>
<td>ATE oral (mg/kg)</td>
<td>53.0</td>
</tr>
</tbody>
</table>
TYRE GUARD

Acute toxicity - dermal
ATE dermal (mg/kg) 300.0

Acute toxicity - inhalation
ATE inhalation (vapours mg/l) 3.0

Skin sensitisation
Guinea pig maximization test (GPMT) - Guinea pig: Sensitising.

SECTION 12: Ecological information

Ecotoxicity
The product is not expected to be hazardous to the environment.

12.1. Toxicity
Acute aquatic toxicity
Acute toxicity - fish Not determined.

Ecological information on ingredients.

Mixture of 5-chloro-2-methyl-2H- isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (Mixture of CMIT/MIT)

Acute aquatic toxicity
LE(C)₀ 0.001 < L(E)C₅₀ ≤ 0.01
M factor (Acute) 100
Acute toxicity - fish Estimated value.
LC₅₀, 96 hours: 13 mg/l, Fish

Chronic aquatic toxicity
NOEC 0.0001 < NOEC ≤ 0.001
Degradability Non-rapidly degradable
M factor (Chronic) 100

12.2. Persistence and degradability
Persistence and degradability The product is expected to be biodegradable.

12.3. Bioaccumulative potential
Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating.
Partition coefficient Not determined.

12.4. Mobility in soil
Mobility The product is soluble in water.

12.5. Results of PBT and vPvB assessment
Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects
Other adverse effects Not determined.

SECTION 13: Disposal considerations
TYRE GUARD

13.1. Waste treatment methods
Disposal methods Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements.

SECTION 14: Transport information

General As supplied, this product is consigned under the Limited Quantities provisions.

Special Provisions note

14.1. UN number
UN No. (ADR/RID) 1950
UN No. (IMDG) 1950
UN No. (ICAO) 1950

14.2. UN proper shipping name
Proper shipping name AEROSOLS
Proper shipping name (IMDG) AEROSOLS
Proper shipping name (ICAO) AEROSOLS

14.3. Transport hazard class(es)
ADR/RID class 2.1
ADR/RID classification code 5F
IMDG class 2.1
ICAO class/division 2.1

Transport labels

14.4. Packing group
Not applicable.

14.5. Environmental hazards
Environmentally hazardous substance/marine pollutant No.

14.6. Special precautions for user
Tunnel restriction code (D)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code
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
TYRE GUARD

National regulations
Control of Substances Hazardous to Health Regulations 2002 (as amended).

EU legislation

Guidance
Workplace Exposure Limits EH40.

15.2. Chemical safety assessment

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet
ATE: Acute Toxicity Estimate.
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS: Chemical Abstracts Service.
DNEL: Derived No Effect Level.
IMDG: International Maritime Dangerous Goods.
LC₅₀: Lethal Concentration to 50 % of a test population.
LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).
PBT: Persistent, Bioaccumulative and Toxic substance.
PNEC: Predicted No Effect Concentration.
vPvB: Very Persistent and Very Bioaccumulative.
EC₅₀: 50% of maximal Effective Concentration.
NOEC: No Observed Effect Concentration.
UN: United Nations.

Classification abbreviations and acronyms
Acute Tox. = Acute toxicity
Aquatic Acute = Hazardous to the aquatic environment (acute)
Aquatic Chronic = Hazardous to the aquatic environment (chronic)
Eye Dam. = Serious eye damage
Skin Sens. = Skin sensitisation
Skin Corr. = Skin corrosion
Press. Gas (Liq.) = Gas under pressure: Liquefied gas
Flam. Gas = Flammable gas

Revision comments
NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date
22/12/2020

Revision
2.3

Supersedes date
12/12/2019

SDS number
28878
TYRE GUARD

Hazard statements in full

H20 Extremely flammable gas.
H223 Flammable aerosol.
H229 Pressurised container: may burst if heated.
H280 Contains gas under pressure; may explode if heated.
H301 Toxic if swallowed.
H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H331 Toxic if inhaled.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
EUH208 Contains Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (Mixture of CMIT/MIT). May produce an allergic reaction.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.