SAFETY DATA SHEET
GARDX DEGREASER WIPES

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

1.1. Product identifier
Product name: GARDX DEGREASER WIPES

1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified uses: Cleaning agent.
Uses advised against: Use only for intended applications.

1.3. Details of the supplier of the safety data sheet
Supplier: GardX International Limited
Unit 7, Clovelly Business Park, Clovelly Road, Southbourne Industrial Estate
Southbourne, Emsworth
Hampshire, PO10 8PE
UK
Tel: +44 (0) 1243 376426
Web: www.gardx.com

1.4. Emergency telephone number
Emergency telephone: +44 (0) 20 3004 8330 (Mon-Fri 09:00 - 16:00)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification (EC 1272/2008)
Physical hazards: Flam. Liq. 3 - H226
Health hazards: Asp. Tox. 1 - H304
Environmental hazards: Aquatic Chronic 2 - H411

2.2. Label elements
Pictogram:

Signal word: Danger
Hazard statements:
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H411 Toxic to aquatic life with long lasting effects.
GARDX DEGREASER WIPES

Precautionary statements
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240 Ground and bond container and receiving equipment.
P273 Avoid release to the environment.
P280 Wear protective clothing, gloves, eye and face protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331 Do NOT induce vomiting.
P501 Dispose of contents/container in accordance with national regulations.

Supplemental label information
EUH066 Repeated exposure may cause skin dryness or cracking.

Contains
Hydrocarbons, C10-C12, isoalkanes, < 2% aromatics

Detergent labelling
≥ 30% aliphatic hydrocarbons

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

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Classification
Flam. Liq. 3 - H226
Asp. Tox. 1 - H304
Aquatic Chronic 2 - H411

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<th>1-5%</th>
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<td>CAS number: 112-34-5</td>
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Classification
Eye Irrit. 2 - H319

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Classification
Acute Tox. 4 - H302
Acute Tox. 4 - H312
Acute Tox. 4 - H332
Skin Irrit. 2 - H315
Eye Irrit. 2 - H319
DIPROPYLENE GLYCOL n-BUTYL ETHER 1-5%

CAS number: 29911-28-2
EC number: 249-951-5
REACH registration number: 01-2119451543-42-XXXX

Classification
Not Classified

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. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention immediately. Keep affected person away from heat, sparks and flames. If medical advice is needed, have product container or label at hand.

Inhalation Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

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

Skin contact Wash skin thoroughly with soap and water or use an approved skin cleanser.

Eye contact Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse. Get medical attention if irritation persists after washing.

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

Inhalation Vapours may cause headache, fatigue, dizziness and nausea.

Ingestion Aspiration hazard if swallowed. May be fatal if swallowed and enters airways.

Skin contact Repeated exposure may cause skin dryness or cracking.

Eye contact May cause discomfort.

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

Notes for the doctor Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Use alcohol-resistant foam, carbon dioxide or dry powder to extinguish.

5.2. Special hazards arising from the substance or mixture

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 Cool containers exposed to flames with water until well after the fire is out.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
GARDX DEGREASER WIPES

Personal precautions

Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. No smoking, sparks, flames or other sources of ignition near spillage. Avoid contact with skin, eyes and clothing. Provide adequate ventilation. Do not enter storage areas or confined spaces unless adequately ventilated. Use suitable respiratory protection if ventilation is inadequate. Take precautionary measures against static discharges. Do not touch or walk into spilled material. Avoid inhalation of vapours. Avoid contact with contaminated tools and objects. 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

Methods for cleaning up

Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Do not touch or walk into spilled material. Absorb spillage with inert, damp, non-combustible 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. 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. Wear protective clothing, gloves, eye and face protection. Use only in well-ventilated areas. Provide adequate ventilation. Avoid release to the environment. Avoid contact with contaminated tools and objects. Do not breathe vapours. Observe any occupational exposure limits for the product or ingredients. Take precautionary measures against static discharge. This product is not to be used under conditions of poor ventilation. Mechanical ventilation or local exhaust ventilation may be required. Use suitable respiratory protection if ventilation is inadequate. Do not reuse empty containers. Do not use in paint spraying equipment. Do not empty into drains. Do not eat, drink or smoke when using this product. Do not handle broken packages without protective equipment. Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions

Store at temperatures between 4°C and 40°C. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep only in the original container in a cool, well-ventilated place.

Storage class

Flammable liquid 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

Hydrocarbons, C10-C12, isoalkanes, < 2% aromatics

Long-term exposure limit (8-hour TWA): WEL 1200 mg/m³ vapour

2-(2-BUTOXYETHOXY)ETHANOL
GARDEX DEGREASER WIPES

Long-term exposure limit (8-hour TWA): WEL 10 ppm 67.5 mg/m³
Short-term exposure limit (15-minute): WEL 15 ppm 101.2 mg/m³

2-BUTOXYETHANOL
Long-term exposure limit (8-hour TWA): WEL 25 ppm 123 mg/m³
Short-term exposure limit (15-minute): WEL 50 ppm 246 mg/m³
Sk
WEL = Workplace Exposure Limit
Sk = Can be absorbed through the skin.

2-(2-BUTOXYETHOXY)ETHANOL (CAS: 112-34-5)

DNEL Industry - Inhalation; 67.5 mg/m³
Industry - Dermal; 20 mg/kg/day
Industry - Inhalation; 50 ppm 246 mg/m³
Consumer - Inhalation; 34 mg/m³
Consumer - Dermal; 10 mg/kg/day
Consumer - Oral; 1.25 mg/kg/day

PNEC
- Fresh water; 1 mg/l
- Marine water; 0.1 mg/l
- Sediment (Freshwater); 4 mg/kg
- Sediment (Marine water); 0.4 mg/kg
- Soil; 0.4 mg/kg
- STP; 200 mg/l

2-BUTOXYETHANOL (CAS: 111-76-2)

DNEL Industry - Dermal; Short term systemic effects: 89 mg/kg/day
Industry - Inhalation; Short term systemic effects: 663 mg/m³
Industry - Dermal; Long term systemic effects: 75 mg/kg/day
Industry - Inhalation; Long term systemic effects: 98 mg/m³
Consumer - Dermal; Short term systemic effects: 44.5 mg/kg
Consumer - Inhalation; Short term systemic effects: 426 mg/m³
Consumer - Oral; Short term systemic effects: 13.4 mg/m³
Consumer - Dermal; Long term systemic effects: 38 mg/kg
Consumer - Oral; Long term systemic effects: 3.2 mg/kg
Consumer - Inhalation; Long term systemic effects: 49 mg/kg
Consumer - Inhalation; local effects: 123 mg/kg
Industry - Inhalation; local effects: 246 mg/m³

PNEC
- Fresh water; 8.8 mg/l
- Marine water; 0.88 mg/l
- Sediment (Freshwater); 34.6 mg/kg
- Soil; 2.8 mg/kg
- STP; 463 mg/l
- Sediment (Marine water); 3.46

DIPROPYLENE GLYCOL n-BUTYL ETHER (CAS: 29911-28-2)

DNEL
Professional - Dermal; Long term systemic effects: 3 mg/kg/day
Professional - Inhalation; Long term systemic effects: 10 mg/m³
Consumer - Dermal; Long term systemic effects: 1.1 mg/kg/day
Consumer - Inhalation; Long term systemic effects: 1.2 mg/m³
Consumer - Oral; Long term systemic effects: 7.5 mg/kg/day
GARDX DEGREASER WIPES

PNEC
- Fresh water; 0.519 mg/l
- Marine water; .0519 mg/l
- Sediment (Freshwater); 2.96 mg/kg
- Soil; 0.287 mg/kg
- STP; 100 mg/l
- Sediment (Marine water); 0.296 mg/kg
- Intermittent release; 5.19 mg/l

8.2. Exposure controls

Protective equipment

Appropriate engineering controls
Provide adequate ventilation. This product is not to be used under conditions of poor ventilation.

Eye/face protection
Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Tight-fitting safety glasses. Personal protective equipment for eye and face protection should comply with European Standard EN166.

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. It should be noted that liquid may penetrate the gloves. Protective gloves should have a minimum thickness of 0.54 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. Thickness: > 0.54 mm

Hygiene measures
Wash hands thoroughly after handling.

Respiratory protection
Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. If ventilation is inadequate, suitable respiratory protection must be worn. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. Respirator selection must be based on exposure levels, the hazards of the product and the safe working limits of the selected respirator. Ensure all respiratory protective equipment is suitable for its intended use and is ‘CE’-marked. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140. Gas and combination filter cartridges should comply with European Standard EN14387. Disposable filtering half mask respirators should comply with European Standard EN149 or EN405. This represents the minimum standard required and better specification protection should be used if available. Check that the respirator fits tightly and the filter is changed regularly. Wear a respirator fitted with the following cartridge: Gas filter, type A2. Organic vapour filter.
GARDX DEGREASER WIPES

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties
Appearance Clear liquid.
Colour Colourless.
Odour Solvent.
pH Not applicable.
Flash point 42°C Setaflash closed cup.
Relative density 0.77 @ 25°C
Viscosity Kinematic viscosity ≤ 20.5 mm²/s.

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
ATE oral (mg/kg) 38,800.0

Acute toxicity - dermal
ATE dermal (mg/kg) 23,555.56

Acute toxicity - inhalation
ATE inhalation (vapours mg/l) 244.44

Aspiration hazard
May be fatal if swallowed and enters airways. Aspiration hazard if swallowed. Kinematic viscosity ≤ 20.5 mm²/s.
GARDX DEGREASER WIPES

Inhalation
Vapours may cause headache, fatigue, dizziness and nausea.

Ingestion
Aspiration hazard if swallowed. May be fatal if swallowed and enters airways.

Skin contact
Repeated exposure may cause skin dryness or cracking.

Eye contact
May cause discomfort.

Toxicological information on ingredients.

Hydrocarbons, C10-C12, isoalkanes, < 2% aromatics

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<td>Species</td>
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<td>ATE inhalation (dusts/mists mg/l)</td>
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2-(2-BUTOXYETHOXY)ETHANOL

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2-BUTOXYETHANOL

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GARDX DEGREASER WIPES

Species: Rabbit

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DIPROPYLENE GLYCOL n-BUTYL ETHER

Species: Rat

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ECOTOXICITY

12.1. Toxicity

Acute aquatic toxicity

Acute toxicity - fish Not determined.

Acute toxicity - aquatic invertebrates

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates

Hydrocarbons, C10-C12, isoalkanes, < 2% aromatics

Acute aquatic toxicity

Acute toxicity - fish, 96 hours: 1000 mg/kg, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates, 48 hours: 1000 mg/l, Daphnia magna

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates, 21 days: <1 mg/l, Daphnia magna

2-(2-BUTOXYETHOXY)ETHANOL

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 48 hours: 1820 mg/l, Leuciscus idus (Golden orfe)

Acute toxicity - aquatic invertebrates NOEC, 48 hours: >100 mg/l, Daphnia magna

Acute toxicity - aquatic plants NOEC, 96 hours: >100 mg/l, Scenedesmus subspicatus
GARDX DEGREASER WIPES

2-BUTOXYETHANOL

Acute aquatic toxicity
Acute toxicity - fish LC₅₀, 96 hours: 820 - 1490 mg/l, Fish
Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 835 - 1550 mg/l, Daphnia magna
Acute toxicity - aquatic plants IC₅₀, 72 hours: 1840 mg/l, Algae

DIPROPYLENE GLYCOL n-BUTYL ETHER

Acute aquatic toxicity
Acute toxicity - fish LC₅₀, 96 hours: 841 mg/l, Poecilia reticulata (Guppy)
Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: > 1000 mg/l, Daphnia magna

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.

12.4. Mobility in soil
Mobility The product contains substances which are water-soluble and may spread in water systems.

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

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

This product contains does not need to be transported as dangerous goods, in accordance with UN 3175 Special Provision 216 (ADR/RID/IMDG) and Special Provision A46 (IATA).
SECTION 15: Regulatory information

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

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
GARDX DEGREASER WIPES

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.
- **EC₅₀**: 50% of maximal Effective Concentration.
- **IATA**: International Air Transport Association.
- **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).
- **NOEC**: No Observed Effect Concentration.
- **PBT**: Persistent, Bioaccumulative and Toxic substance.
- **PNEC**: Predicted No Effect Concentration.
- **UN**: United Nations.
- **vPvB**: Very Persistent and Very Bioaccumulative.

Classification abbreviations and acronyms

- **Acute Tox.** = Acute toxicity
- **Aquatic Chronic** = Hazardous to the aquatic environment (chronic)
- **Asp. Tox.** = Aspiration hazard
- **Eye Irrit.** = Eye irritation
- **Flam. Liq.** = Flammable liquid
- **Skin Irrit.** = Skin irritation

Revision comments

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

Revision date: 08/07/2019
Revision: 1.0
Supersedes date: n/a

Hazard statements in full

- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H411 Toxic to aquatic life with long lasting effects.

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.