

# Safety Data Sheet

acc. to HCS and GHS

## 1 Identification

- **Product identifier**
- **Trade name:** Slide-Out Dry Lube Aerosol
- **Application of the substance / the mixture** Lubricant
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**  
Protect All, Inc.  
7101 Jackson Road  
Ann Arbor, MI 48103 USA  
Phone: (734) 769-6000
- **Emergency telephone number:**  
(800) 424-9300 (CHEMTREC-24 hrs)

## 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flam. Aerosol 1 H222 Extremely flammable aerosol.



GHS08 Health hazard

Muta. 1B H340 May cause genetic defects.  
Carc. 1B H350 May cause cancer.  
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS07

Eye Irrit. 2A H319 Causes serious eye irritation.  
Skin Sens. 1 H317 May cause an allergic skin reaction.  
STOT SE 3 H336 May cause drowsiness or dizziness.

- **Label elements**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS02 GHS07 GHS08

- **Signal word** Danger

- **Hazard-determining components of labeling:**

Stoddard solvent

(Contd. on page 2)

## Safety Data Sheet

acc. to HCS and GHS

**Trade name: Slide-Out Dry Lube Aerosol**

(Contd. of page 1)

4-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene  
 Petroleum gases, liquefied, sweetened

• **Hazard statements**

H222: Extremely flammable aerosol.  
 H222 Extremely flammable aerosol.  
 H319 Causes serious eye irritation.  
 H317 May cause an allergic skin reaction.  
 H340 May cause genetic defects.  
 H350 May cause cancer.  
 H336 May cause drowsiness or dizziness.  
 H304 May be fatal if swallowed and enters airways.

• **Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
 P251 Pressurized container: Do not pierce or burn, even after use.  
 P211 Do not spray on an open flame or other ignition source.  
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P281 Use personal protective equipment as required.  
 P264 Wash thoroughly after handling.  
 P271 Use only outdoors or in a well-ventilated area.  
 P272 Contaminated work clothing should not be allowed out of the workplace.  
 P201 Obtain special instructions before use.  
 P202 Do not handle until all safety precautions have been read and understood.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P321 Specific treatment (see on this label).  
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P363 Wash contaminated clothing before reuse.  
 P308+P313 IF exposed or concerned: Get medical advice/attention.  
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P337+P313 If eye irritation persists: Get medical advice/attention.  
 P331 Do NOT induce vomiting.  
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
 P302+P352 IF ON SKIN: Wash with plenty of water.  
 P312 Call a POISON CENTER/doctor if you feel unwell.  
 P405 Store locked up.  
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.  
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

• **Additional information:** Contains 4-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene. May produce an allergic reaction.

• **Hazard description:**

• **WHMIS-symbols:**

A - Compressed gas  
 B5 - Flammable aerosol  
 D2A - Very toxic material causing other toxic effects

(Contd. on page 3)

# Safety Data Sheet

acc. to HCS and GHS

Trade name: Slide-Out Dry Lube Aerosol

(Contd. of page 2)



- Classification system:
- NFPA ratings (scale 0 - 4)



Health = 1  
Fire = 3  
Reactivity = 0

- HMIS-ratings (scale 0 - 4)



Health = \*1  
Fire = 3  
Reactivity = 0

\* - Indicates a long term health hazard from repeated or prolonged exposures.

- Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

## 3 Composition/information on ingredients

- Chemical characterization: Mixtures
- Description: Mixture of the substances listed below with nonhazardous additions.

### Dangerous components:

79-20-9	methyl acetate <ul style="list-style-type: none"> <li>⚠ Flam. Liq. 2, H225</li> <li>⚠ Eye Irrit. 2A, H319; STOT SE 3, H336</li> </ul>	25-50%
8052-41-3	Stoddard solvent <ul style="list-style-type: none"> <li>⚠ Flam. Liq. 3, H226</li> <li>⚠ Muta. 1B, H340; Carc. 1B, H350; Asp. Tox. 1, H304</li> </ul>	10-25%
98-56-6	4-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene <ul style="list-style-type: none"> <li>⚠ Flam. Liq. 3, H226</li> <li>⚠ Skin Sens. 1, H317</li> </ul>	2.5-10%
68476-86-8	Petroleum gases, liquefied, sweetened <ul style="list-style-type: none"> <li>⚠ Flam. Gas 1, H220; Flam. Liq. 1, H224</li> <li>⚠ Press. Gas, H280</li> <li>⚠ Muta. 1B, H340; Carc. 1B, H350</li> </ul>	2.5-10%
111-76-2	2-butoxyethanol <ul style="list-style-type: none"> <li>⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319</li> <li>H227</li> </ul>	≤ 2.5%

(Contd. on page 4)

# Safety Data Sheet

## acc. to HCS and GHS

Trade name: Slide-Out Dry Lube Aerosol

(Contd. of page 3)

### 4 First-aid measures

- **Description of first aid measures**

- **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- **After inhalation:**

Supply fresh air; consult doctor in case of complaints.

Provide oxygen treatment if affected person has difficulty breathing.

In case of irregular breathing or respiratory arrest provide artificial respiration.

- **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

In cases of frost bites, rinse with plenty of water. Do not remove clothing.

If skin irritation continues, consult a doctor.

- **After eye contact:**

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- **After swallowing:**

Unlikely route of exposure.

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

- **Most important symptoms and effects, both acute and delayed**

Headache

Dizziness

Breathing difficulty

Coughing

Frost bites

Nausea

Disorientation

Unconsciousness

- **Danger**

Danger of impaired breathing.

Danger of pulmonary edema.

Danger of disturbed cardiac rhythm.

Danger of convulsion.

Condition may deteriorate with alcohol consumption.

May be harmful if inhaled.

- **Indication of any immediate medical attention and special treatment needed**

If swallowed, gastric irrigation with added, activated carbon.

If necessary oxygen respiration treatment.

Later observation for pneumonia and pulmonary edema.

Medical supervision for at least 48 hours.

Contains chlorinated hydrocarbons..

(Contd. on page 5)

## Safety Data Sheet

acc. to HCS and GHS

Trade name: Slide-Out Dry Lube Aerosol

(Contd. of page 4)

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
  - Foam
  - Alcohol resistant foam
  - Fire-extinguishing powder
  - Gaseous extinguishing agents
  - Carbon dioxide
  - Water fog / haze
  - Water spray
- **For safety reasons unsuitable extinguishing agents:** Water stream.
- **Special hazards arising from the substance or mixture**
  - During heating or in case of fire poisonous gases are produced.
  - Danger of receptacles bursting because of high vapor pressure if heated.
- **Advice for firefighters**
- **Protective equipment:**
  - Wear self-contained respiratory protective device.
  - Wear fully protective suit.
- **Additional information**
  - Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
  - Eliminate all ignition sources if safe to do so.
  - Cool endangered receptacles with water fog.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
  - Use respiratory protective device against the effects of fumes/dust/aerosol.
  - Wear protective equipment. Keep unprotected persons away.
  - Ensure adequate ventilation.
  - Particular danger of slipping on leaked/spilled product.
  - Protect from heat.
  - Keep away from ignition sources.
- **Environmental precautions:**
  - Do not allow to enter sewers/ surface or ground water.
  - Inform respective authorities in case of seepage into water course or sewage system.
- **Methods and material for containment and cleaning up:**
  - Allow to evaporate.
  - Absorb liquid components with liquid-binding material.
  - Send for recovery or disposal in suitable receptacles.
  - Remove from the water surface (e.g. skim or suck off).
  - Dispose contaminated material as waste according to item 13.
  - Used rags or other cleaning materials should be soaked with water and placed in a sealed container.
- **Reference to other sections**
  - See Section 7 for information on safe handling.
  - See Section 8 for information on personal protection equipment.

(Contd. on page 6)

## Safety Data Sheet

acc. to HCS and GHS

**Trade name: Slide-Out Dry Lube Aerosol**

See Section 13 for disposal information.

(Contd. of page 5)

### 7 Handling and storage

· **Precautions for safe handling**

Keep away from heat and direct sunlight.

Avoid splashes or spray in enclosed areas.

Avoid the formation of oil haze.

Rags, metal wools / cuttings / shavings and waste papers soaked with product must be placed in a sealed metal container rated for flammable waste.

· **Information about protection against explosions and fires:**

Do not spray on a naked flame or any incandescent material.

Protect against electrostatic charges.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 120 °F / 49 °C, i.e. electric lights. Do not pierce or burn, even after use.

Emergency cooling must be available in case of nearby fire.

Keep respiratory protective device available.

Flammable gas-air mixtures may be formed in empty receptacles.

· **Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Store in a cool location.

Observe official regulations on storing packagings with pressurized containers.

Avoid storage near extreme heat, ignition sources or open flame.

· **Information about storage in one common storage facility:**

Store away from foodstuffs.

Store away from oxidizing agents.

· **Further information about storage conditions:**

Protect from heat and direct sunlight.

Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

· **Specific end use(s)** No further relevant information available.

### 8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

**79-20-9 methyl acetate**

PEL (USA)	Long-term value: 610 mg/m <sup>3</sup> , 200 ppm
REL (USA)	Short-term value: 760 mg/m <sup>3</sup> , 250 ppm
	Long-term value: 610 mg/m <sup>3</sup> , 200 ppm
TLV (USA)	Short-term value: 757 mg/m <sup>3</sup> , 250 ppm
	Long-term value: 606 mg/m <sup>3</sup> , 200 ppm

(Contd. on page 7)

## Safety Data Sheet

acc. to HCS and GHS

**Trade name: Slide-Out Dry Lube Aerosol**

(Contd. of page 6)

EL (Canada)	Short-term value: 250 ppm Long-term value: 200 ppm
EV (Canada)	Short-term value: 755 mg/m <sup>3</sup> , 250 ppm Long-term value: 605 mg/m <sup>3</sup> , 200 ppm
LMPE (Mexico)	Short-term value: 760 mg/m <sup>3</sup> , 250 ppm Long-term value: 610 mg/m <sup>3</sup> , 200 ppm

### 8052-41-3 Stoddard solvent

PEL (USA)	Long-term value: 2900 mg/m <sup>3</sup> , 500 ppm
REL (USA)	Long-term value: 350 mg/m <sup>3</sup> Ceiling limit value: 1800* mg/m <sup>3</sup> *15-min
TLV (USA)	Long-term value: 525 mg/m <sup>3</sup> , 100 ppm
EL (Canada)	Short-term value: 580 mg/m <sup>3</sup> Long-term value: 290 mg/m <sup>3</sup>
EV (Canada)	Long-term value: 525 mg/m <sup>3</sup>
LMPE (Mexico)	Short-term value: 1050 mg/m <sup>3</sup> , 200 ppm Long-term value: 523 mg/m <sup>3</sup> , 100 ppm

### 111-76-2 2-butoxyethanol

PEL (USA)	Long-term value: 240 mg/m <sup>3</sup> , 50 ppm Skin
REL (USA)	Long-term value: 24 mg/m <sup>3</sup> , 5 ppm Skin
TLV (USA)	Long-term value: 97 mg/m <sup>3</sup> , 20 ppm BEI
EL (Canada)	Long-term value: 20 ppm
EV (Canada)	Long-term value: 20 ppm Skin
LMPE (Mexico)	Short-term value: 360 mg/m <sup>3</sup> , 75 ppm Long-term value: 120 mg/m <sup>3</sup> , 26 ppm PIEL

#### · Ingredients with biological limit values:

### 111-76-2 2-butoxyethanol

BEI (USA)	200 mg/g creatinine Medium: urine Time: end of shift Parameter: Butoxyacetic acid with hydrolysis
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· **Additional information:** The lists that were valid during the creation were used as basis.

#### · Exposure controls

#### · Personal protective equipment:

#### · General protective and hygienic measures:

Do not inhale gases / fumes / aerosols.

Keep away from tobacco products.

The usual precautionary measures for handling chemicals should be followed.

Avoid contact with the eyes and skin.

(Contd. on page 8)

## Safety Data Sheet

acc. to HCS and GHS

**Trade name: Slide-Out Dry Lube Aerosol**

(Contd. of page 7)

Wash hands before breaks and at the end of work.

· **Breathing equipment:**

For spills, respiratory protection may be advisable.

Use suitable respiratory protective device when high concentrations are present.

NIOSH or EN approved organic vapor respirator equipped with a dust/mist prefilter should be used.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Safety glasses

· **Body protection:** Oil resistant protective clothing

· **Limitation and supervision of exposure into the environment**

No further relevant information available.

### 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form:

Aerosol

Color:

Not determined.

· **Odor:**

Not determined.

· **Odor threshold:**

Not determined.

· **pH-value:**

Not determined.

· **Change in condition**

· **Melting point/Melting range:**

Undetermined.

· **Boiling point/Boiling range:**

Not applicable, as aerosol.

· **Flash point:**

Not applicable, as aerosol.

(Contd. on page 9)



## Safety Data Sheet

acc. to HCS and GHS

**Trade name: Slide-Out Dry Lube Aerosol**

(Contd. of page 8)

- **Flammability (solid, gaseous):** Extremely flammable aerosol.
- **Auto-ignition temperature:** Not determined.
- **Decomposition temperature:** Not determined.
- **Auto igniting:** Product is not self-igniting.
- **Danger of explosion:** Not determined.
- **Explosion limits:**
  - Lower:** 1.1 Vol % (approximate)
  - Upper:** 16.0 Vol % (approximate)
- **Vapor pressure at 20 °C (68 °F):** 220 hPa (165 mm Hg) (approximate)
- **Density:** Not determined.
- **Relative density** Not determined.
- **Vapour density** Not determined.
- **Evaporation rate** Not applicable.
- **Solubility in / Miscibility with Water:** Not miscible or difficult to mix.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
  - Dynamic:** Not determined.
  - Kinematic:** Not determined.
- **Other information** No further relevant information available.

### 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
  - Avoid temperatures above 122 °F / 50 °C.
  - No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions**
  - Extremely flammable aerosol.
  - Toxic fumes may be released if heated above the decomposition point.
  - Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomized.
  - Danger of receptacles bursting because of high vapor pressure if heated.
  - Reacts violently with oxidizing agents.
- **Conditions to avoid**
  - Keep away from heat and direct sunlight.
  - Store away from oxidizing agents.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**
  - Carbon monoxide and carbon dioxide
  - Hydrogen fluoride
  - Fluorocarbons

(Contd. on page 10)

# Safety Data Sheet

acc. to HCS and GHS

Trade name: Slide-Out Dry Lube Aerosol

Chlorine compounds

(Contd. of page 9)

## 11 Toxicological information

- **Information on toxicological effects**

- **Acute toxicity:**

- **Primary irritant effect:**

- **on the skin:** Slight irritant effect on skin and mucous membranes.

- **on the eye:** Irritating effect.

- **Sensitization:** Sensitization possible through skin contact.

- **Additional toxicological information:**

Toxic and/or corrosive effects may be delayed up to 24 hours.

Danger through skin absorption.

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

Inhalation of concentrated vapors as well as oral intake will lead to anaesthesia-like conditions and headache, dizziness, etc.

The product can cause inheritable damage.

May cause genetic defects.

May cause cancer.

- **Carcinogenic categories**

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

- **Repeated Dose Toxicity:**

May cause damage to organs through prolonged or repeated exposure.

Repeated exposures may result in skin and/or respiratory sensitivity.

## 12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

The material is harmful to the environment.

**98-56-6 4-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene**

EC50 (dynamic) | 3.0 mg/kg (zebra fish)

- **Persistence and degradability** Not easily biodegradable

- **Bioaccumulative potential** No further relevant information available.

- **Mobility in soil** No further relevant information available.

- **Ecotoxicological effects:**

- **Remark:**

Harmful to fish

Due to mechanical actions of the product (e.g. agglutinations) damages may occur.

The product is oxygen-consuming. The declared action may be partly caused by lack of oxygen.

(Contd. on page 11)

## Safety Data Sheet

acc. to HCS and GHS

**Trade name: Slide-Out Dry Lube Aerosol**



(Contd. of page 10)

- **Additional ecological information:**
- **General notes:**
  - Avoid transfer into the environment.
  - Water hazard class 3 (Self-assessment): extremely hazardous for water
  - Do not allow product to reach ground water, water course or sewage system, even in small quantities.
  - Danger to drinking water if even extremely small quantities leak into the ground.
  - Harmful to aquatic organisms
  - Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
  - After prior treatment product has to be disposed of in an incinerator for hazardous waste adhering to the regulations pertaining to the disposal of particularly hazardous waste.
  - Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
  - The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.
- **Uncleaned packagings:**
- **Recommendation:** Dispose of packaging according to regulations on the disposal of packagings.

### 14 Transport information

- **UN-Number**
- **DOT, ADR, IMDG, IATA** UN1950
- **UN proper shipping name**
- |   |   |
|---|---|
|  | Limited Quantity for packages less than 30 kg (66 lb) and inner packagings less than 1 L (0.3 gal). |
|---|---|
- **DOT** Aerosols, flammable
- **ADR** 1950 AEROSOLS, flammable
- **IMDG, IATA** AEROSOLS, flammable
- **Transport hazard class(es)**
- **DOT**
- |   |          |
|---|----------|
|  | 2 Gases. |
|---|----------|
- **Class**

(Contd. on page 12)

## Safety Data Sheet

acc. to HCS and GHS

Trade name: Slide-Out Dry Lube Aerosol

(Contd. of page 11)

- Label 2.1
- ADR
- Class 2 5F Gases
- Label 2.1



- IMDG, IATA



- Class 2 Gases.
- Label 2.1
- Packing group
- DOT, ADR, IMDG, IATA None
- Environmental hazards:
- Marine pollutant: No
- Special precautions for user Warning: Gases
- EMS Number: F-D,S-U
- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.
- UN "Model Regulation": UN1950, Aerosols, 2.1

### 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- SARA

- Section 355 (extremely hazardous substances):

None of the ingredients is listed.

- Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

- TSCA (Toxic Substances Control Act):

All ingredients are listed.

- Proposition 65 (California)

- Chemicals known to cause cancer:

None of the ingredients are listed.

- Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

- Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

(Contd. on page 13)

## Safety Data Sheet

acc. to HCS and GHS

**Trade name: Slide-Out Dry Lube Aerosol**

(Contd. of page 12)

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

111-76-2	2-butoxyethanol	NL
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· **IARC (International Agency for Research on Cancer)**

111-76-2	2-butoxyethanol	3
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· **TLV (Threshold Limit Value established by ACGIH)**

111-76-2	2-butoxyethanol	A3
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· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **State Right to Know Listings**

None of the ingredients is listed.

· **Canadian substance listings:**

· **Canadian Domestic Substances List (DSL)**

All ingredients are listed.

· **Canadian Ingredient Disclosure list (limit 0.1%)**

None of the ingredients is listed.

· **Canadian Ingredient Disclosure list (limit 1%)**

79-20-9	methyl acetate
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8052-41-3	Stoddard solvent
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111-76-2	2-butoxyethanol
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· **Other regulations, limitations and prohibitive regulations**

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 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.

· **Date of preparation / last revision** 05/26/2015      Rev. 3

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

(Contd. on page 14)

**Safety Data Sheet**  
acc. to HCS and GHS**Trade name: Slide-Out Dry Lube Aerosol**

(Contd. of page 13)

WHMIS: Workplace Hazardous Materials Information System (Canada)  
Flam. Gas 1: Flammable gases, Hazard Category 1  
Flam. Aerosol 1: Flammable aerosols, Hazard Category 1  
Press. Gas: Gases under pressure: Compressed gas  
Flam. Liq. 1: Flammable liquids, Hazard Category 1  
Flam. Liq. 2: Flammable liquids, Hazard Category 2  
Flam. Liq. 3: Flammable liquids, Hazard Category 3  
: Flammable liquids, Hazard Category 4  
Acute Tox. 4: Acute toxicity, Hazard Category 4  
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2  
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2  
Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A  
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1  
Muta. 1B: Germ cell mutagenicity, Hazard Category 1B  
Carc. 1B: Carcinogenicity, Hazard Category 1B  
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3  
Asp. Tox. 1: Aspiration hazard, Hazard Category 1

**Sources**

SDS Prepared by:

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