

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 03/28/2016

Reviewed on 03/28/2016

**1 Identification**

- **Product name:** Mold Release Spray, PTFE Based
- **Part number:** 200-10006
- **Application of the substance / the mixture** Releasing agent
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Allied High Tech Products Inc.  
2376 East Pacifica Place  
USA-RANCHO DOMINGUEZ, CA 90220  
USA  
info@alliedhightech.com
- **Information department:** Product safety department
- **Emergency telephone number:**  
During normal opening times: +1 (310) 635-2466  
Chemtrec: +1 (202) 483-7616

**2 Hazard(s) identification**

- **Classification of the substance or mixture**



Eye Irrit. 2A H319 Causes serious eye irritation.  
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**



- **Signal word** Warning
- **Hazard-determining components of labeling:**  
isopropyl alcohol
- **Hazard statements**  
Causes serious eye irritation.  
May cause drowsiness or dizziness.

(Contd. on page 2)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/28/2016

Reviewed on 03/28/2016

**Product name: Mold Release Spray, PTFE Based**

(Contd. of page 1)

**· Precautionary statements**

Avoid breathing dust/fume/gas/mist/vapors/spray

Wear eye protection / face protection.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER/doctor if you feel unwell.

If eye irritation persists: Get medical advice/attention.

Store locked up.

Store in a well-ventilated place. Keep container tightly closed.

Dispose of contents/container in accordance with local/regional/national/international regulations.

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


Health = 1

Fire = 2

Reactivity = 2

**· HMIS-ratings (scale 0 - 4)**


Health = 1

Fire = 2

Reactivity = 2

### 3 Composition/information on ingredients

**· Chemical characterization: Mixtures**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

**· Hazardous Components:**

115-10-6	dimethyl ether ⚠ Flam. Gas 1, H220; Press. Gas, H280	25-50%
811-97-2	1,1,1,2-Tetrafluorethan ⚠ Acute Tox. 4, H302	25-50%
67-63-0	isopropyl alcohol ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2A, H319; STOT SE 3, H336	10-<25%

### 4 First-aid measures

**· Description of first aid measures**

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:** Generally the product does not irritate the skin.

**· After eye contact:**

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

· **After swallowing:** If symptoms persist consult doctor.

US

(Contd. on page 3)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/28/2016

Reviewed on 03/28/2016

**Product name: Mold Release Spray, PTFE Based**

(Contd. of page 2)

## 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling** No special precautions are necessary if used correctly.
- **Information about protection against explosions and fires:**  
Do not spray on a naked flame or any incandescent material.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Store at temperatures not exceeding 49 °C.  
Observe official regulations on storing packagings with pressurized containers.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Keep receptacle tightly sealed.  
Store receptacle in a well ventilated area.

## 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:**

### 115-10-6 dimethyl ether

WEEL	Long-term value: 1000 ppm
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### 811-97-2 1,1,1,2-Tetrafluorethan

WEEL	Long-term value: 1000 ppm
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### 67-63-0 isopropyl alcohol

PEL	Long-term value: 980 mg/m <sup>3</sup> , 400 ppm
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(Contd. on page 4)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/28/2016

Reviewed on 03/28/2016

**Product name: Mold Release Spray, PTFE Based**

(Contd. of page 3)

REL	Short-term value: 1225 mg/m <sup>3</sup> , 500 ppm Long-term value: 980 mg/m <sup>3</sup> , 400 ppm
TLV	Short-term value: 984 mg/m <sup>3</sup> , 400 ppm Long-term value: 492 mg/m <sup>3</sup> , 200 ppm BEI

**· Ingredients with biological limit values:**

**67-63-0 isopropyl alcohol**

BEI	40 mg/L Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific)
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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:**

Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes.  
Avoid contact with the eyes and skin.

**· Breathing equipment:** Use suitable respiratory protective device when high concentrations are present.

**· Protection of hands:**

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



Protective gloves

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

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:**



Tightly sealed goggles

## 9 Physical and chemical properties

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

**· General Information**

**· Appearance:**

**Form:** Aerosol

(Contd. on page 5)

US

# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/28/2016

Reviewed on 03/28/2016

**Product name: Mold Release Spray, PTFE Based**

(Contd. of page 4)

<b>Color:</b>	White
<b>· Odor:</b>	Light
<b>· Odor threshold:</b>	Not determined.
<b>· pH-value:</b>	Not determined.
<b>· Change in condition</b>	
<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	Not applicable, as aerosol.
<b>· Flash point:</b>	Not applicable, as aerosol.
<b>· Flammability (solid, gaseous):</b>	Not applicable.
<b>· Ignition temperature:</b>	
<b>Decomposition temperature:</b>	Not determined.
<b>· Auto igniting:</b>	Product is not selfigniting.
<b>· Danger of explosion:</b>	Product does not present an explosion hazard.
<b>· Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
<b>· Vapor pressure at 20 °C (68 °F):</b>	5066 hPa (3800 mm Hg)
<b>· Density at 20 °C (68 °F):</b>	0.92283 g/cm <sup>3</sup> (7.701 lbs/gal)
<b>· Relative density</b>	Not determined.
<b>· Vapor density</b>	>1 (Air = 1)
<b>· Specific gravity at 20 °C (68 °F):</b>	0.80
<b>· Evaporation rate</b>	>1 (BuAc = 1)
<b>· Solubility in / Miscibility with</b>	
<b>Water:</b>	Partly miscible.
<b>· Partition coefficient (n-octanol/water):</b>	Not determined.
<b>· Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
<b>· Solvent content:</b>	
<b>Organic solvents:</b>	56.5 %
<b>VOC content:</b>	56.5 %
	521.6 g/l / 4.35 lb/gl
<b>Solids content:</b>	43.5 %

## 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Conditions to avoid**
  - Keep away from oxidising agents and acidic substances.
  - Keep away from heat.
  - Keep away from open flames. - No smoking.

(Contd. on page 6)

US

# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/28/2016

Reviewed on 03/28/2016

**Product name: Mold Release Spray, PTFE Based**

(Contd. of page 5)

- **Hazardous decomposition products:**  
Hydrogen fluoride  
Carbon monoxide and carbon dioxide

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary chemical irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

67-63-0	isopropyl alcohol	3
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- **NTP (National Toxicology Program)**

None of the ingredients is listed.
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- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.
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## 12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

67-63-0 isopropyl alcohol
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LC50 (96 h)	11,130 mg/l (pimephales promelas)
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- **Persistence and degradability** Not easily biodegradable
- **Behavior in environmental systems:**
- **Bioaccumulative potential** May be accumulated in organism
- **Additional ecological information:**
- **General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:** Contact waste processors for recycling information.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

US

(Contd. on page 7)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/28/2016

Reviewed on 03/28/2016

**Product name: Mold Release Spray, PTFE Based**

(Contd. of page 6)

## 14 Transport information

- **UN-Number**
- **DOT, IMDG, IATA**            *UN1950*
- **UN proper shipping name**
- **DOT**                            *Aerosols, flammable*
- **IMDG**                         *AEROSOLS*
- **IATA**                         *AEROSOLS, flammable*

- **Transport hazard class(es)**

- **DOT**



- **Class**                         *2.2*
- **Label**                        *2.2*

- **IMDG**



- **Class**                         *2.1*
- **Label**                        *2.2*

- **IATA**



- **Class**                         *2.2*
- **Label**                        *2.2*

- **Packing group**
- **DOT, IMDG, IATA**         *not regulated*

- **Environmental hazards:**

- **Marine pollutant:**         *No*

- **Special precautions for user** *Warning: Gases*

- **Danger code (Kemler):**     *-*
- **EMS Number:**             *F-D,S-U*
- **Stowage Code**             *SW1 Protected from sources of heat.  
SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.*
- **Segregation Code**         *SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.*

(Contd. on page 8)

US

# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/28/2016

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**Product name: Mold Release Spray, PTFE Based**

(Contd. of page 7)

- **Transport/Additional information:**
- **DOT**
- **Quantity limitations**            *On passenger aircraft/rail: 75 kg*  
     *On cargo aircraft only: 150 kg*

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- **IMDG**
- **Limited quantities (LQ)**        *1L*
- **Excepted quantities (EQ)**       *Code: E0*  
     *Not permitted as Excepted Quantity*

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- **UN "Model Regulation":**       *UN 1950 AEROSOLS, 2.2*

## 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):**

67-63-0 | isopropyl alcohol

- **TSCA (Toxic Substances Control Act):**

*All ingredients are listed.*

- **Proposition 65**

- **Chemicals known to cause cancer:**

*None of the ingredients is listed.*

- **Chemicals known to cause reproductive toxicity for females:**

*None of the ingredients is listed.*

- **Chemicals known to cause reproductive toxicity for males:**

*None of the ingredients is listed.*

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

*None of the ingredients is listed.*

- **Carcinogenic categories**

- **EPA (Environmental Protection Agency)**

*None of the ingredients is listed.*

- **TLV (Threshold Limit Value established by ACGIH)**

67-63-0 | isopropyl alcohol

A4

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**

*None of the ingredients is listed.*

- **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.*

- **Department issuing SDS:** *Environment protection department.*

(Contd. on page 9)



# Safety Data Sheet

## acc. to OSHA HCS

Printing date 03/28/2016

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**Product name: Mold Release Spray, PTFE Based**

(Contd. of page 8)

· **Contact:** Kim Dermit

· **Date of preparation / last revision** 03/28/2016 / -

· **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)*

*VOC: Volatile Organic Compounds (USA, EU)*

*LD50: Lethal dose, 50 percent*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

*NIOSH: National Institute for Occupational Safety*

*OSHA: Occupational Safety & Health*

*TLV: Threshold Limit Value*

*PEL: Permissible Exposure Limit*

*REL: Recommended Exposure Limit*

*BEI: Biological Exposure Limit*

*LC50: Lethal concentration, 50 percent*

*Flam. Gas 1: Flammable gases, Hazard Category 1*

*Press. Gas: Gases under pressure: Compressed gas*

*Flam. Liq. 2: Flammable liquids, Hazard Category 2*

*Acute Tox. 4: Acute toxicity, Hazard Category 4*

*Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A*

*STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3*