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## Safety Data Sheet acc. to OSHA HCS

Last revision 06/01/2024

### Printing date 07/02/2024

Version 5.0

## **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. 16207 Carmenita Road USA-Cerritos, CA, 90703 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



Flammable Aerosols 1

GHS04 Gas cylinder

Gases under Pressure - Compressed gas

GHS08 Health hazard

Toxic to Reproduction 2

Aspiration Hazard 1



H411 Toxic to aquatic life with long lasting effects.

H280 Contains gas under pressure; may explode if heated.

H361 Suspected of damaging fertility or the unborn child.

H304 May be fatal if swallowed and enters airways.

H222 Extremely flammable aerosol.



Aquatic Chronic 2

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Skin Irritation 2	H315 Causes skin irritation.	
Eye Irritation 2A	H319 Causes serious eye irritation.	
 Specific Target Organ Toxicity - Single Exposure 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 Danger

· Hazard-determining components of labeling:

2-methylpentane n-hexane 3-methylpentane isopropyl alcohol · Hazard statements Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes skin irritation. Causes serious eye irritation. Suspected of damaging fertility or the unborn child. May cause drowsiness or dizziness. May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects. Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Avoid breathing dust/fume/gas/mist/vapors/spray Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Immediately call a poison center/doctor. Specific treatment (see on this label). Do NOT induce vomiting. If on skin: Wash with plenty of water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Collect spillage. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

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

### 3 Composition/information on ingredients

#### · Chemical characterization: Mixtures

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

· Hazardo	is components and components with occupational exposure limits:	
75-37-6	1,1-difluoroethane	40-50%
	🚸 Flammable Liquids 1, H224	
67-63-0	isopropyl alcohol Flammable Liquids 2, H225; () Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H336	10-<20%
107-83-5	2-methylpentane	10-<20%
96-14-0	<ul> <li>3-methylpentane</li> <li>Flammable Liquids 2, H225; Aspiration Hazard 1, H304; Aquatic Chronic 2, H411; Skin Irritation 2, H315; Specific Target Organ Toxicity - Single Exposure 3, H336</li> </ul>	5-<10%
75-83-2	2,2-dimethylbutane Flammable Liquids 2, H225; Aspiration Hazard 1, H304; Aquatic Chronic 2, H411; Skin Irritation 2, H315; Specific Target Organ Toxicity - Single Exposure 3, H336	2.5-<5%
79-29-8	2,3-dimethylbutane Flammable Liquids 2, H225; Aspiration Hazard 1, H304; Aquatic Chronic 2, H411; Skin Irritation 2, H315; Specific Target Organ Toxicity - Single Exposure 3, H336	2.5-<5%
110-54-3	n-hexane 🚸 Flammable Liquids 2, H225; 🚸 Toxic to Reproduction 2, H361; 🚸 Acute Toxicity - Inhalation 4, H332	0.1-≤1%

### 4 First-aid measures

- · Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · 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.
- Information for doctor:
- · Most important symptoms and effects, both acute and delayed
- Redness
- Swelling
- Headache
- Dizziness
- Nausea
- Dermatitis Eve irritation
- Lye Initiation

· Indication of any immediate medical attention and special treatment needed No further relevant information available.

#### 5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- Protective equipment: Wear fully protective suit.

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6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation 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:
- Dispose contaminated material as waste according to section 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

Protect from heat and direct sunlight.

Ensure proper ventilation/exhaustion at workplaces.

Open and handle receptacle with care.

- Information about protection against explosions and fires: Do not spray on a naked flame or any incandescent material. Keep ignition sources away - Do not smoke.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Protect from sunlight.

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.

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

## 8 Exposure controls/personal protection

• Additional information about design of technical systems: No additional data. See 7.

#### · Control parameters

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

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the remaining constituent has no known exposure limits.

67-6	67-63-0 isopropyl alcohol		
PEL	Long-term value: 980 mg/m <sup>3</sup> , 400 ppm		
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: 400 ppm Long-term value: 200 ppm BEI, A4		

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3-5 2-methylpentane Long-term value: 350 mg/m <sup>3</sup> , 100 ppm Ceiling limit value: 1800* mg/m <sup>3</sup> , 510* ppm *15-min Long-term value: 200 ppm A3 -0 3-methylpentane
Ceiling limit value: 1800* mg/m <sup>3</sup> , 510* ppm *15-min Long-term value: 200 ppm A3
A3
-0 3-methylpentane
Long-term value: 350 mg/m <sup>3</sup> , 100 ppm Ceiling limit value: 1800* mg/m <sup>3</sup> , 510* ppm *15-min
Long-term value: 200 ppm A3
-2 2,2-dimethylbutane
Long-term value: 350 mg/m <sup>3</sup> , 100 ppm Ceiling limit value: 1800* mg/m <sup>3</sup> , 510* ppm *15-min
Long-term value: 200 ppm A3
-8 2,3-dimethylbutane
Long-term value: 350 mg/m <sup>3</sup> , 100 ppm Ceiling limit value: 1800* mg/m <sup>3</sup> , 510* ppm *15-min
Long-term value: 200 ppm A3
4-3 n-hexane
Long-term value: 1800 mg/m <sup>3</sup> , 500 ppm
Long-term value: 180 mg/m <sup>3</sup> , 50 ppm
Long-term value: 50 ppm Skin; BEI
dients with biological limit values:
-0 isopropyl alcohol
40 mg/L Medium: urine Fime: end of shift at end of workweek Parameter: Acetone (background, nonspecific)
4-3 n-hexane
0.5 mg/L Medium: urine Fime: end of shift Parameter: 2.5-Hexanedione without hydrolysis
sure controls nal protective equipment: ral protective and hygienic measures: away from foodstuffs, beverages and feed. diately remove all soiled and contaminated clothing. hands before breaks and at the end of work. protective clothing separately.

Avoid contact with the eyes and skin.

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

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#### · 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.

#### • Eye protection:



Tightly sealed goggles

## 9 Physical and chemical properties

· Information on basic physical and chemical properties		
· General Information		
· Appearance:	A 1	
Form:	Aerosol	
Color:	White	
· Odor:	Alcohol-like	
· Odor threshold:	Not determined.	
· pH-value:	Not determined.	
· Change in condition		
Melting point/Melting range:	Undetermined.	
<b>Boiling point/Boiling range:</b>	Not applicable, as aerosol.	
· Flash point:	Not applicable, as aerosol.	
· Flammability (solid, gaseous):	Not applicable.	
· Decomposition temperature:	Not determined.	
· Ignition temperature:	Product is not selfigniting.	
• Danger of explosion:	Not determined.	
· Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
· Vapor pressure at 20 °C (68 °F):	5,066 hPa (3.866 mm Hg)	
· Density:	Not determined.	
Relative density	Not determined.	
· Vapor density	>1 (Air = 1)	
• Specific gravity at 20 °C (68 °F):	0.82	
• Evaporation rate	>1 (BuAc = 1)	
· Solubility in / Miscibility with Water:	Partly miscible.	
Partition coefficient (n-octanol/water): Not determined.		

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· Viscosity: Dynamic: Kinematic:	Not determined. Not determined.	
· Solvent content: Organic solvents: VOC content:	22.5 % 40.54 %	
Solids content:	0.0 %	
• Other information	No further relevant information available.	

## 10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid
- Keep away from oxidising agents and acidic substances.
- Keep away from heat.
- Keep away from open flames. No smoking.
- · Incompatible materials: Chlorine
- · Hazardous decomposition products: Carbon monoxide and carbon dioxide
- · Additional information: Hazardous decomposition products may form during combustion.

## 11 Toxicological information

· Information on toxicological effects

### · Acute toxicity:

· LD/LC50	· LD/LC50 values that are relevant for classification:			
	75-37-6 1,1-difluoroethane			
Inhalative	Inhalative LC50/4 h 977 mg/l (mouse)			
67-63-0 is	67-63-0 isopropyl alcohol			
Oral	LD50	5,045 mg/kg (rat)		
Dermal	LD50	12,800 mg/kg (rabbit)		
Inhalative	Inhalative LC50/4 h 30 mg/l (rat)			
110-54-3	110-54-3 n-hexane			
Inhalative	LC50/4 h	11 mg/l (ATE)		

#### Primary chemical irritant effect:

- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:
- Specific Target Organ Toxicity Single Exposure 3 Target Organ: central nervous system depression

#### · Carcinogenic categories

· IARC (International Agency for Research on Cancer)	
67-63-0 isopropyl alcohol	3
·NTP (National Toxicology Program)	
None of the ingredients is listed.	
· OSHA-Ca (Occupational Safety & Health Administration)	
None of the ingredients is listed.	
	$(C_{2}, d_{1}, d_{2}, d_{3}, d_{3},$

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## 12 Ecological information

#### · Toxicity

## • Aquatic toxicity:

LC50 (96 h) 11,130 mg/l (pimephales promelas)

#### 110-54-3 n-hexane

LC50 (96 h) 2.981 mg/l (pimephales promelas)

· Persistence and degradability No further relevant information available.

- · Behavior in environmental systems:
- · Bioaccumulative potential May be accumulated in organism
- Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Toxic for fish
- · Additional ecological information:
- · General notes:

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

- · 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:** Contact waste processors for recycling information.

· Uncleaned packagings:

• Recommendation: Disposal must be made according to official regulations.

#### 14 Transport information · UN-Number UN1950 · DOT, IMDG, IATA · UN proper shipping name Aerosols, flammable · DOT AEROSOLS, MARINE POLLUTANT ·IMDG AEROSOLS, flammable $\cdot$ IATA · Transport hazard class(es) · DOT · Class 2.1 Gases · Label 2.1

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· IMDG	
· Class · Label	2.1 Gases 2.1
· IATA	····
Class	2.1 Gases
·Label	2.1
· Packing group · DOT, IMDG, IATA	not regulated
· Environmental hazards:	Product contains environmentally hazardous substances: 2- methylpentane
· Marine pollutant:	No Symbol (fish and tree)
· Special precautions for user	Warning: Gases
<ul> <li>Hazard identification number (Kemler code):</li> <li>EMS Number:</li> </ul>	- F-D,S-U
· Stowage Code	SW1 Protected from sources of heat.
	SW2 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.
• Transport in bulk according to Annex II of MARPOL73/78 a	
the IBC Code	Not applicable.
· Transport/Additional information:	
· DOT	
· Quantity limitations	On passenger aircraft/rail: 75 kg
· Limited quantities (LQ)	On cargo aircraft only: 150 kg 1L
· Transport category	2
Tunnel restriction code	D
·IMDG	
Limited quantities (LQ)	
· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· UN "Model Regulation":	UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS

## 15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

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·Sara	
· Section 355 (extremely hazardous substances):	
None of the ingredients is listed.	
· Section 313 (Specific toxic chemical listings):	
67-63-0 isopropyl alcohol	
110-54-3 n-hexane	
· TSCA (Toxic Substances Control Act):	
All components have the value ACTIVE.	
· Hazardous Air Pollutants	
110-54-3 n-hexane	
· 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:	
110-54-3 n-hexane	
Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	
· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.	

# To the best of our knowledge, the information contained herein is accurate. However, it does not describe a guarantee of product properties and does not establish a contractual legal relationship.

- · Department issuing SDS: Technical Services
- · Contact: Pablo Mendoza
- · Last revision / supersedes version: 06/01/2024 / 4.0
- Supersedes date: 06/01/2022
- · Abbreviations and acronyms:

ADR: Accord relatif au transport international 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 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) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit BEI: Biological Exposure Limit Flammable Aerosols 1: Aerosols - Category 1 Gases under Pressure - Compressed gas: Gases under pressure - Compressed gas Flammable Liquids 1: Flammable liquids - Category 1 Flammable Liquids 2: Flammable liquids - Category 2 Acute Toxicity - Inhalation 4: Acute toxicity - Category 4 Skin Irritation 2: Skin corrosion/irritation - Category 2 Eye Irritation 2A: Serious eye damage/eye irritation - Category 2A Toxic to Reproduction 2: Reproductive toxicity - Category 2 Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) - Category 3 Aspiration Hazard 1: Aspiration hazard – Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2
- \* \* Data compared to the previous version altered.