

## 1. Identification

<b>Product identifier</b>	<b>MAP-HP</b>		
<b>Product code</b>	11003008		
<b>Manufacturer / Importer / Supplier / Distributor information</b>			
<b>Company name</b>	WIGAM S.p.A.		
<b>Address</b>	Loc.Spedale 10/b 52018 Castel San Nicolò (AR) Italy		
<b>Telephone</b>	Telephone Number:	05755011	
<b>E-mail</b>	<a href="mailto:info@wigam.it">info@wigam.it</a>		
<b>Emergency phone number</b>	05755011		

## 2. Hazard(s) identification

<b>Physical hazards</b>	Flammable gases	Category 1
	Gases under pressure	Liquefied gas
<b>Health hazards</b>	Specific target organ toxicity, single exposure	Category 3 narcotic effects
<b>OSHA hazard(s)</b>	Not classified.	

\*Hazards not stated here are "Not classified", "Not applicable" or "Classification not possible".

### Label elements Hazard symbol

<b>Signal word</b>	Danger
<b>Hazard statement</b>	Extremely flammable gas. Contains gas under pressure; may explode if heated. May displace



and cause rapid suffocation.

### Precautionary statement

<b>Prevention</b>	Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area.
<b>Response</b>	Leaking gas fire: Do not extinguish, unless leak can be stopped safely. Eliminate all ignition sources if safe to do so. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.
<b>Storage</b>	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.

**Hazard(s) not otherwise classified (HNOC)** Not classified.

### Supplemental information

<b>Hazard statement</b>	May displace oxygen and cause rapid suffocation.
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## 3. Composition/information on ingredients

### Mixture

#### Hazardous components

Chemical name	Common name and synonyms	CAS number	%
Propylene		115-07-1	99.5 - 100

Non-hazardous components			
Chemical name	Common name and synonyms	CAS number	%
Propane		74-98-6	0 - 0.5

#### 4. First-aid measures

<b>Inhalation</b>	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a physician or poison control center immediately.
<b>Skin contact</b>	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation develops and persists. If frostbite occurs, immerse involved area in warm water (between 100 F/38 C and 110 F/43 C, not exceeding 112 F/44 C). Keep immersed for 20 to 40 minutes. Seek medical assistance.
<b>Eye contact</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
<b>Ingestion</b>	Ingestion is not a typical route of exposure for gases or liquefied gases.
<b>Most important symptoms/effects, acute and delayed</b>	Not available.
<b>Indication of immediate medical attention and special treatment needed</b>	Exposure may aggravate pre-existing respiratory disorders. Treat symptomatically.

#### 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Dry chemical, CO2, water spray, fog, or foam.
<b>Unsuitable extinguishing media</b>	Not available.
<b>Specific hazards arising from the chemical</b>	Not applicable.
<b>Special protective equipment and precautions for firefighters</b>	Not available.
<b>Fire-fighting equipment/instructions</b>	Self-contained breathing apparatus, operated in positive pressure mode and full protective clothing must be worn in case of fire.  Move container from fire area if it can be done without risk.  Do not extinguish fires unless gas flow can be stopped safely; explosive re-ignition may occur. Promptly isolate the scene by removing all persons from the vicinity of the incident. No action shall be taken involving any personal risk or without suitable training. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus. Stop flow of material. Use water to keep fire exposed containers cool and to protect personnel effecting shutoff. If a leak or spill has not ignited, use water spray to disperse the vapors and to protect personnel attempting to stop leak. Prevent runoff from fire control or dilution from entering streams, sewers or drinking water supply.

#### 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Evacuate the area promptly. No action shall be taken involving any personal risk or without suitable training. Keep unnecessary personnel away.  Ensure adequate ventilation. In case of inadequate ventilation, use respiratory protection. Wear appropriate personal protective equipment (See Section 8).
<b>Methods and materials for containment and cleaning up</b>	Ventilate well, stop flow of gas or liquid if possible. Immediately contact emergency personnel.
<b>Environmental precautions</b>	Should not be released into the environment. Prevent further leakage or spillage if safe to do so. Prevent from entering into soil, ditches, sanitary sewers, waterways and/or groundwater.

#### 7. Handling and storage

<b>Precautions for safe handling</b>	Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Wear appropriate personal protective equipment (See Section 8). Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed. Do not breathe gas. Do not get in eyes, on skin, on clothing. Use only with adequate ventilation.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in accordance with local, regional, national, and international regulations. Secure cylinders in an upright position at all times, close all valves when not in use. Store in a cool, dry, well-ventilated place. Keep container tightly closed and sealed until ready for use. Protect cylinders from damage.

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### US. ACGIH Threshold Limit Values

Components	Type	Value
Propylene (CAS 115-07-1)	TWA	500 ppm
Biological limit values	No biological exposure limits noted for the ingredient(s).	
Appropriate engineering controls	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. The engineering controls also need to keep gas, vapor, or dust concentrations below any lower explosive limits.	
Individual protection measures, such as personal protective equipment		
Eye/face protection	Wear approved safety glasses or goggles.	
Skin protection		
Hand protection	Wear appropriate chemical resistant gloves.	
Other	Wear protective clothing appropriate for the risk of exposure.	
Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.	
Thermal hazards	Not available.	
General hygiene considerations	Do not eat, drink or smoke when using the product. Wash thoroughly after handling. Provide eyewash station and safety shower. Handle in accordance with good industrial hygiene and safety practices.	

## 9. Physical and chemical properties

Appearance	Colorless liquefied gas.
Physical state	Gas.
Form	Compressed liquefied gas.
Color	Colorless
Odor	Hydrocarbon or mercaptan if odorized
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	-301 °F (-185 °C)
Initial boiling point and boiling range	-54.4 °F (-48 °C)
Flash point	-162 °F (-107.8 °C)
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	2 %
Flammability limit - upper (%)	11 %
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	109.73 PSIG (21°C)
Vapor density	1.5 at 0°C
Relative density	Not available.
Solubility(ies)	Slight
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	927 °F (497.22 °C)
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Molecular weight	42
Percent volatile	Essentially 100%
VOC (Weight %)	100 %

## 10. Stability and reactivity

Reactivity	Not available.
Chemical stability	Stable under normal temperature conditions and recommended use.
Possibility of hazardous reactions	Polymerization will not occur.
Conditions to avoid	Heat, flames and sparks.
Incompatible materials	Strong oxidizing agents. Strong acids. Halogens.
Hazardous decomposition products	None known.

## 11. Toxicological information

### Information on likely routes of exposure

Ingestion	Not available.
Inhalation	Not available.
Skin contact	Not available.
Eye contact	Not available.

Symptoms related to the physical, chemical and toxicological characteristics

Not available.

### Information on toxicological effects

Acute toxicity                      Suffocation (asphyxiant) hazard - if allowed to accumulate to concentrations that reduce oxygen below safe breathing levels. Exposure to rapidly expanding gas or vaporizing liquid may cause frostbite ("cold burn").

Components	Species	Test Results
Propylene (CAS 115-07-1) Acute <i>Inhalation</i> LC50	Mouse Rat	680 mg/l, 2 Hours 658 mg/l, 4 Hours
Skin corrosion/irritation	Not available.	
Serious eye damage/eye irritation	Not available.	
Respiratory sensitization	Not available.	
Skin sensitization	Not available.	
Germ cell mutagenicity	Not available.	
Carcinogenicity		
IARC Monographs. Overall Evaluation of Carcinogenicity Propylene (CAS 115-07-1)		3 Not classifiable as to carcinogenicity to humans.
Reproductive toxicity	Not available.	
Specific target organ toxicity - single exposure	Not available.	
Specific target organ toxicity - repeated exposure	Not available.	
Aspiration hazard	Not available.	
Chronic effects	May cause central nervous system effects.	

## 12. Ecological information

Ecotoxicity	Not expected to be harmful to aquatic organisms.
Persistence and degradability	Not available.
Bioaccumulative potential	Not available.
Partition coefficient n-octanol / water (log Kow) Propylene	1.77
Mobility in soil	Not available.
Other adverse effects	Not available.

### 13. Disposal considerations

Disposal instructions	Use the container until empty. Do not dispose of any non-empty container. Empty containers have residual vapor that is flammable and explosive. Cylinders should be emptied and returned to a hazardous waste collection point. Do not puncture or incinerate even when empty. Dispose in accordance with all applicable regulations.
Local disposal regulations	Not available.
Hazardous waste code	Not regulated.
Waste from residues / unused products	Not available.
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied.

### 14. Transport information

#### DOT

UN number	UN1060
UN proper shipping name	Propylene
Transport hazard class(es) 2.1	
Subsidiary class(es)	-
Packing group	Not available.
Special precautions for user	Not available.
Labels required	2.1 19,
Special provisions	T50
Packaging exceptions	306 304
Packaging non bulk	314,
Packaging bulk	315

#### IATA

UN number	UN1060
UN proper shipping name	Propylene
Transport hazard class(es)	2.1
Subsidiary class(es)	-
Packaging group	Not available.
Labels required	2.1
ERG Code	Not available.
Special precautions for user	Not available.

#### IMDG

UN number	UN1060
UN proper shipping name	Propylene
Transport hazard class(es) 2.1	
Subsidiary class(es)	-
Packaging group	Not available.
Labels required	2.1
EmS	Not available.
Special precautions for user	Not available.

Transport in bulk according to No information available.  
Annex II of MARPOL 73/78 and  
the IBC Code

### 15. Regulatory information

US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.
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TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)  
Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)  
Not on regulatory list.

CERCLA Hazardous Substance List (40 CFR 302.4)

Propylene (CAS 115-07-1) LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No
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SARA 302 Extremely hazardous substance No  
 SARA 311/312 Hazardous chemical Yes

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Propylene (CAS 115-07-1)

Clean Water Act (CWA) Hazardous substance

Section 112(r) (40 CFR 68.130)

Safe Drinking Water Act (SDWA) Not regulated.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Not listed.

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Not regulated.

DEA Exempt Chemical Mixtures Code Number

Not regulated.

Food and Drug Administration (FDA) Not regulated.

US state regulations

US. Massachusetts RTK - Substance List

Propylene (CAS 115-07-1)

US. New Jersey Worker and Community Right-to-Know Act

Propylene (CAS 115-07-1) 500 LBS

US. Pennsylvania RTK - Hazardous Substances

Propylene (CAS 115-07-

1) US. Rhode Island RTK

Propylene (CAS 115-07-1)

US. California Proposition 65

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A 'Yes' indicates this product complies with the inventory requirements administered by the governing country(s)

16. Other information, including date of preparation or last version

Issue date 12-07-2014  
 Revision date -  
 Version # 01  
 Further information Not available.

**Disclaimer**

All information in this Material Safety Data Sheet is believed to be accurate and reliable. However, no guarantee or warranty of any kind is made with regard to the accuracy of information or the suitability of the recommendations contained herein. It is the user's responsibility to assess the safety and toxicity of this product under their own conditions of use and to comply with all applicable laws and regulations.