SAFETY DATA SHEET



Oxidizing Gas Mixture: Carbon Dioxide / Nitrous Oxide / Oxygen / Sulfur Hexafluoride

Section 1. Identification

GHS product identifier	: Oxidizing Gas Mixture: Carbon Dioxide / Nitrous Oxide / Oxygen / Sulfur Hexafluoride
Other means of identification	: Not available.
Product use	: Synthetic/Analytical chemistry.
SDS #	: 008426
Supplier's details	: Airgas USA, LLC and its affiliates 259 North Radnor-Chester Road Suite 100 Radnor, PA 19087-5283 1-610-687-5253
24-hour telephone	: 1-866-734-3438

Section 2. Hazards identification

Classification of the substance or mixture (29 CFR 1910.1200). Substance or mixture : OXIDIZING GASES - Category 1 GASES UNDER PRESSURE - Compressed gas SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 GHS label elements Hazard pictograms : Image: Im	OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard
substance or mixture GASES UNDER PRESSURE - Compressed gas SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 GHS label elements Hazard pictograms : Hazard pictograms : Image:		
Hazard pictograms : image for the second secon		GASES UNDER PRESSURE - Compressed gas SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -
Signal word: DangerHazard statements: May cause or intensify fire; oxidizer. Contains gas under pressure; may explode if heated. May increase respiration and heart rate. May cause drowsiness and dizziness.Precautionary statements: Read and follow all Safety Data Sheets (SDS'S) before use. Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand. Close valve after each use and when empty. Use equipment rated for cylinder pressure. Do not open valve until connected to equipment prepared for use. Use a back flow preventative device in the piping. Use only equipment cleaned for Oxygen service.Prevention: Keep away from clothing, incompatible materials and combustible materials. Keep reduction valves, valves and fittings free from oil and grease. Use only outdoors or in 	GHS label elements	
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Hazards not otherwise : None known.	Storage	: Store locked up. Protect from sunlight when ambient temperature exceeds 52°C/125°F. Store in a well-ventilated place.
	Disposal	
		: None known.

Date of issue/Date of revision

Section 3. Composition/information on ingredients

Substance/mixture Other means of identification

: Mixture

: Not available.

CAS number/other identifiers

CAS number	: Not applicable.
Product code	: 008426

Ingredient name	%	CAS number
nitrous oxide Carbon Dioxide	23.5 - 99 0.0001 - 76.5 2 - 20 0.0001 - 10	7782-44-7 10024-97-2 124-38-9 2551-62-4

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	 Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	 Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: As this product is a gas, refer to the inhalation section.

Most important symptoms/effects, acute and delayed

Potential acute health eff	<u>ects</u>					
Eye contact	: Contact with rapidly expanding gas may cause burns or frostbite.					
Inhalation	 Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness. 					
Skin contact	: Contact with rapidly expanding gas may cause burns or frostbite.					
Frostbite	: Try to warm up the frozen tissues and seek medical attention.					
Ingestion	: Can cause central nervous system (CNS) depression. As this product is a gas, refer to the inhalation section.					
<u>Over-exposure signs/syn</u>	<u>nptoms</u>					
Eye contact	: No specific data.					
Inhalation	 Adverse symptoms may include the following:, nausea or vomiting, headache, drowsiness/fatigue, dizziness/vertigo, unconsciousness 					
Skin contact	: No specific data.					
Ingestion	: No specific data.					
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Section 4. First aid measures

Indication of immediate medical attention and special treatment needed, if necessary				
Notes to physician	 In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. 			
Specific treatments	: No specific treatment.			
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.			

See toxicological information (Section 11)

Section 5. Fire-fig	hting measures
Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: Contains gas under pressure. Oxidizing material. This material increases the risk of fire and may aid combustion. Contact with combustible material may cause fire. In a fire or if heated, a pressure increase will occur and the container may burst or explode.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides halogenated compounds
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Contact supplier immediately for specialist advice. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. If involved in fire, shut off flow immediately if it can be done without risk.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing gas. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Ensure emergency procedures to deal with accidental gas releases are in place to avoid contamination of the environment. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	ont	ainment and cleaning up
Small spill	:	Immediately contact emergency personnel. Stop leak if without risk. Use spark-proof tools and explosion-proof equipment.

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Section 6. Accidental release measures

Large spill

: Immediately contact emergency personnel. Stop leak if without risk. Use spark-proof tools and explosion-proof equipment. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Contains gas under pressure. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep away from clothing, incompatible materials and combustible materials. Keep reduction valves free from grease and oil. Empty containers retain product residue and can be hazardous. Do not puncture or incinerate container. Use equipment rated for cylinder pressure. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. Use a suitable hand truck for cylinder movement.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations. Store in a segregated and approved area. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Store locked up. Separate from acids, alkalies, reducing agents and combustibles. Keep container tightly closed and sealed until ready for use. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Cylinder temperatures should not exceed 52 °C (125 °F).

Section 8. Exposure controls/personal protection

<u>Control parameters</u> <u>Occupational exposure li</u>	imits				
oxygen			None.		
nitrous oxide			ACGIH TLV (United	d States, 3/2015).	
			TWA: 90 mg/m³ 8		
			TWA: 50 ppm 8 ho		
			NIOSH REL (United		
			TWA: 46 mg/m³ 10		
			TWA: 25 ppm 10 h		
Carbon Dioxide			ACGIH TLV (United	d States, 3/2015). Ox	cygen
			Depletion [Asphyx		
			STEL: 54000 mg/n		
			STEL: 30000 ppm		
			TWA: 9000 mg/m ³		
			TWA: 5000 ppm 8		
			NIOSH REL (United		
			STEL: 54000 mg/n		
			STEL: 30000 ppm		
			TWA: 9000 mg/m ³		
			TWA: 5000 ppm 1		
			OSHA PEL (United		
			TWA: 9000 mg/m ³		
			TWA: 5000 ppm 8		
				nited States, 3/1989)).
			STEL: 54000 mg/n		
			STEL: 30000 ppm		
			TWA: 18000 mg/m		
			TWA: 10000 ppm		
Sulfur hexafluoride			OSHA PEL Z2 (Uni	ted States, 2/2013).	
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Section 8. Exposure controls/personal protection

	TWA: 2.5 mg/m³ 8 hours. Form: Dust ACGIH TLV (United States, 3/2015). TWA: 5970 mg/m³ 8 hours. TWA: 1000 ppm 8 hours. TWA: 1000 ppm 8 hours. NIOSH REL (United States, 10/2013). TWA: 6000 mg/m³ 10 hours. TWA: 1000 ppm 10 hours. OSHA PEL (United States, 2/2013). TWA: 6000 mg/m³ 8 hours. TWA: 1000 ppm 8 hours.
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measu	<u>ires</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	 Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

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Section 9. Physical and chemical properties

<u>Appearance</u>	
Physical state	: Gas.
Color	: Not available.
Melting/freezing point	: -50.8°C (-59.4°F) This is based on data for the following ingredient: sulphur hexafluoride. Weighted average: -156.74°C (-250.1°F)
Critical temperature	: Lowest known value: -118.15°C (-180.7°F) (oxygen).
Odor	: Not available.
Odor threshold	: Not available.
рН	: Not available.
Flash point	: Not available.
Burning time	: Not applicable.
Burning rate	: Not applicable.
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: Not available.
Vapor density	 Highest known value: 5 (Air = 1) (sulphur hexafluoride). Weighted average: 1.49 (Air = 1)
Gas Density (lb/ft ³)	: Weighted average: 0.1
Relative density	: Not applicable.
Solubility	: Not available.
Solubility in water	: Not available.
Partition coefficient: n-	: Not available.
octanol/water	
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
SADT	: Not available.
Viscosity	: Not applicable.

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Hazardous reactions or instability may occur under certain conditions of storage or use. Conditions may include the following: contact with combustible materials Reactions may include the following: risk of causing fire
Conditions to avoid	: No specific data.
Incompatible materials	: Highly reactive or incompatible with the following materials: combustible materials reducing materials grease oil
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
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Oxidizing Gas Mixture: Carbon Dioxide / Nitrous Oxide / Oxygen / Sulfur Hexafluoride

Section 10. Stability and reactivity

Hazardous polymerization : Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Not available.

Irritation/Corrosion

Not available.

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
nitrous oxide Sulfur hexafluoride	-	3 3	-

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name		Route of exposure	Target organs
nitrous oxide	Category 3	Not applicable.	Narcotic effects

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely : Not available. routes of exposure

Potential acute health effects

Eye contact	: Contact with rapidly expanding gas may cause burns or frostbite.
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness.
Skin contact	: Contact with rapidly expanding gas may cause burns or frostbite.
Ingestion	: Can cause central nervous system (CNS) depression. As this product is a gas, refer to the inhalation section.

Symptoms related to the physical, chemical and toxicological characteristicsEye contact: No specific data.

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Section 11. Toxicological information

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Inhalation	: Adverse symptoms may include the following:, nausea or vomiting, headache, drowsiness/fatigue, dizziness/vertigo, unconsciousness
Skin contact	: No specific data.
Ingestion	: No specific data.
Delayed and immediate effect	ts and also chronic effects from short and long term exposure
Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	<u>ects</u>
Not available.	
General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Not available.

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
oxygen	0.65	-	low
nitrous oxide	0.36	-	low
Carbon Dioxide	0.83	-	low
Sulfur hexafluoride	1.68	-	low

Mobility in soil

Soil/water p	artition
coefficient	(Koc)

: Not available.

Other adverse effects

ects : No known significant effects or critical hazards.

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Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Empty Airgas-owned pressure vessels should be returned to Airgas. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

Section 14. Transport information

	DOT	TDG	Mexico	IMDG	ΙΑΤΑ
UN number	UN3156	UN3156	UN3156	UN3156	UN3156
UN proper shipping name	COMPRESSED GAS, OXIDIZING, N.O.S. (oxygen, Nitrous Oxide)	COMPRESSED GAS, OXIDIZING, N.O.S. (oxygen, Nitrous Oxide)	COMPRESSED GAS, OXIDIZING, N.O.S. (oxygen, Nitrous Oxide)	COMPRESSED GAS, OXIDIZING, N.O.S. (oxygen, Nitrous Oxide)	COMPRESSED GAS, OXIDIZING, N.O.S. (oxygen, Nitrous Oxide
Transport	2.2 (5.1)	2.2 (5.1)	2.2 (5.1)	2.2 (5.1)	2.2 (5.1)
hazard class(es)	2 DECER				
Packing group	-	-	-	-	-
Environment	No.	No.	No.	No.	No.
Additional information	-	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.13-2.17 (Class 2), 2.23-2.25 (Class 5). Explosive Limit and Limited Quantity Index 0 ERAP Index 3000 Passenger Carrying Ship Index Forbidden	-	-	-
		Passenger Carrying Road or Rail Index 75			

"Refer to CFR 49 (or authority having jurisdiction) to determine the information required for shipment of the product."

Special precautions for user	1	Transport within user's premises: always transport in closed containers that are
		upright and secure. Ensure that persons transporting the product know what to do in the
		event of an accident or spillage.

Transport in bulk according : Not available. to Annex II of MARPOL 73/78 and the IBC Code

Section 15. Regulatory information

U.S. Federal regulations		SCA 8(a) CDR Exer nited States invent	•	•			oted.
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: No	ot listed					
Clean Air Act Section 602 Class I Substances	: No	ot listed					
Clean Air Act Section 602 Class II Substances	: No	ot listed					
DEA List I Chemicals (Precursor Chemicals)	: No	ot listed					
DEA List II Chemicals (Essential Chemicals)	: No	ot listed					
<u>SARA 302/304</u>							
Composition/information	on ing	<u>redients</u>					
No products were found.							
SARA 304 RQ	: No	ot applicable.					
SARA 311/312							
Classification		udden release of pre imediate (acute) hea		rd			
Composition/information	on ing	<u>redients</u>					
Name		%	Fire hazard	Sudden release of	Reactive	Immediate (acute)	Delayed (chronic)

		hazard	release of pressure		(acute) health hazard	(chronic) health hazard
oxygen	23.5 - 99	No.	Yes.	No.	No.	No.
nitrous oxide	0.0001 - 76.5	No.	Yes.	No.	Yes.	No.
Carbon Dioxide	2 - 20	No.	Yes.	No.	No.	No.
Sulfur hexafluoride	0.0001 - 10	No.	Yes.	No.	No.	No.

State regulations

Massachusetts	 The following components are listed: OXYGEN (LIQUID); CARBON DIOXIDE; NITROUS OXIDE; SULFUR HEXAFLUORIDE
New York	: None of the components are listed.
New Jersey	 The following components are listed: OXYGEN; CARBON DIOXIDE; CARBONIC ACID GAS; NITROUS OXIDE; NITROGEN OXIDE (N2O); SULFUR HEXAFLUORIDE; SULFUR FLUORIDE (SF6), (OC-6-11)-
Pennsylvania	 The following components are listed: OXYGEN; CARBON DIOXIDE; NITROUS OXIDE; SULFUR FLUORIDE (SF6), (OC-6-11)-

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Ingredient name	Cancer	Reproductive	•	Maximum acceptable dosage level
Nitrous Oxide	No.	Yes.	No.	No.

International regulations

International lists

National inventory

Australia

: All components are listed or exempted.

Section 15. Regulatory information

Canada	: All components are listed or exempted.
China	: All components are listed or exempted.
Europe	: All components are listed or exempted.
Japan	: Not determined.
Malaysia	: Not determined.
New Zealand	: All components are listed or exempted.
Philippines	: Not determined.
Republic of Korea	: All components are listed or exempted.
Taiwan	: All components are listed or exempted.
<u>Canada</u>	
WHMIS (Canada)	Class A: Compressed gas.
	Class C: Oxidizing material. Class D-2A: Material causing other toxic effects (Very toxic).
	CEPA Toxic substances : The following components are listed: Carbon dioxide; Nitrous oxide; Sulphur hexafluoride
	Canadian ARET: None of the components are listed.
	Canadian NPRI : The following components are listed: Nitrogen oxides (expressed as nitrogen dioxide)
	Alberta Designated Substances: None of the components are listed.
	Ontario Designated Substances: None of the components are listed.
	Quebec Designated Substances: None of the components are listed.

Section 16. Other information

Canada Label requirements : Class A: Compressed gas.

Class A: Compressed gas. Class C: Oxidizing material. Class D-2A: Material causing other toxic effects (Very toxic).

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Procedure used to derive the classification

Date of issue/Date of revision	: 10/23/2015	Date of previous issue	: No previous validation	Version : 0.01	11/12
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Section 16. Other information

Clas	sification	Justification			
Ox. Gas 1, H270		On basis of test data			
Press. Gas Comp. Gas, H2	80	On basis of test data			
STOT SE 3, H336		Calculation method			
<u>History</u>					
Date of printing	: 10/23/2015				
Date of issue/Date of revision	: 10/23/2015				
Date of previous issue	: No previous validatio	on			
Version	: 0.01				
Key to abbreviations	BCF = Bioconcentrat GHS = Globally Ham IATA = International IBC = Internediate B IMDG = International LogPow = logarithm MARPOL 73/78 = Int 1973 as modified by	ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations			
References	: Not available.	: Not available.			

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.