1. Identification					
Product Identifiner	:	Nitrous Oxide			
Other means of	:	Dinitrogen Oxide, Nitrogen Oxide, Nitrous Oxide, N2O, Laughing gas,			
identification		UN 1070			
Product use	:	Synthetic, Analytical chemistry			
Supplier	:	Leland Limited, Inc.			
		2614 South Clinton Ave.			
		South Plainfield, NJ 07080			
		1-908-561-2000 (8-4 EST)			
Emergency calls		1 800 272 75 10 (Domostic)			
Hazmat Service Inc.	:	1-800-373-7542 (Domestic)			
Contract #1264	:	1-484-951-2432 (International)			
2. Hazards Identification					
OSHA/HCS status	:	This material is considered hazardous by the OSHA Hazard			
		Communication Standard (29 CFR 1910. 1200).			
Classification of the	:	Oxidizing Gases			
substance or mixture		Gases under pressure – Compressed gas			
		Specific target organ toxicity (single exposure) (narcotic effects)			
GHS label elements					
Hazard pictograms	:				
Signal word	:	Danger			
Hazards statements	:	Contains gas under pressure; may explode if heated			
		May cause or intensity fire; oxidizer			
		May displace oxygen and cause rapid suffocation.			
		May cause drowsiness and dizziness.			
		May cause frostbite.			
Precautionary statements					
General	:	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 of compatible			
		materials of construction. Open valve slowly. Use only with equipment			
		cleaned for Oxygen service.			
Prevention	:	Keep away from clothing, incompatible materials and combustible			
		materials. Keep reduction valves free from grease and oil. Use only			
		outdoors or in a well-ventilated area. Avoid breathing gas. Use and store			
5		only outdoors or in a well ventilated place.			
Response	:	In case of fire: Stop leak if safe to do so.			
		IF INHALED: Remove person to fresh air and keep comfortable for			



Storage	:	breathing. Call a POISON CENTER or doctor/physician if you feel unwell. Store locked up. Protect from sunlight. Protect from sunlight when ambient temperature exceeds 40C/104F. Store in a well-ventilated place.
Disposal	:	Dispose in accordance with all applicable regulations.
Hazards not otherwise classified	:	In addition to any other important health or physical hazards, this product may displace oxygen and cause rapid suffocation.

3. Composition, Information on Ingredients

Substance/Mixture	: Substance	
Chemical Name	: Dinitrogen oxide	
Synonyms	: Dinitrogen Oxide, Nitrogen Oxide, Nitrous Oxide, N2O, Laughing ga	S,
	UN 1070	
CAS Number	: 10024-97-2	
Content (vo%)	: 99.5 % or more	
T I I I I I I I		

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.

4. First Aid Measures

Description of necessary first aid measures

Inhalation	Remove exposed person 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.		
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 if irritation occurs.		
Ingestion :	Since this product is a gas, refer to the inhalation section.		
Most important symptoms/effects	, acute and delayed		

Potential acute health effects

Inhalation	:	Can cause central nervous system (CNS) depression. May cause	
		drowsiness and dizziness. Exposure to decomposition products may	

LELAND	į	Safety Data Sheet	Leland Limited Inc. Product: Nitrous Oxide Revised on:Jan 29,2021			
	С	ause a health hazard. Serious effects ma	ay be delayed following			
Skin Contact	: N	xposure. lay cause skin irritation. Contact with rap urns or frostbite.	pidly expanding gas may cause			
Eye Contact		lay cause eye irritation. Contact with rap urns or frostbite.	idly expanding gas may cause			
Frostbite			ek medical attention.			
Ingestion	: C	Try to warm up the frozen tissues and seek medical attention. Can cause central nervous system (CNS) depression. As this product is gas, refer to the inhalation section.				
Over-exposure signs/sympto	ms					
Inhalation		dverse symptoms may include the follow				
Skin Contact		eadache, drowsiness/fatigue, dizziness/ lo specific data.	vertigo, unconsciousness			
Eye Contact		lo specific data.				
Ingestion		lo specific data.				
Indication of immodiate modic	alattan	tion and special treatment peeded, if peed	seon/			
Notes to physician		tion and special treatment needed, if neces n case of inhalation of decomposition pro	-			
	b	e delayed. The exposed person may ne urveillance for 48 hours.				
Specific treatments	: N	lo specific treatment.				
Protection of first-aiders	tr w b	lo action shall be taken involving any per raining. If it is suspected that fumes are s rear an appropriate mask or self-containe e dangerous to the person providing aid esuscitation.	still present, the rescuer should ed breathing apparatus. It may			
5. Fire Fighting Measur	es					
Extinguishing media						
Suitable extinguishing media	: U	lse an extinguishing agent suitable for th	e surrounding fire.			
Unsuitable extinguishing media	: N	lone known.				
Specific hazards arising from the chemical	th m	Contains gas under pressure. Oxidizing n ne risk of fire and may aid combustion. C nay cause fire. In a fire or if heated, a pre ontainer may burst or explode.	Contact with combustible material			
Hazardous thermal		Decomposition products may include the	following materials:			
decomposition products Special protective actions for fire-fighters	: P ir ri a U	litrogen Oxides Promptly isolate the scene by removing a incident if there is a fire. No action shall be sk or without suitable training. Contact s dvice. Move containers from fire area if t Jse water spray to keep fire-exposed cor ff flow immediately if it can be done with	e taken involving any personal upplier immediately for specialist this can be done without risk. ntainers cool. If involved fire, shut			

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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 specialized 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 containment and cleaning up

Small spill	: Immediately contact emergency personnel. Stop leak if without risk. Use
	spark-proof tools and explosion-proof equipment.
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.

7. Handling and Storage

Precautions for safe handling

	Dama A of 44
Conditions for safe storage, including any	 Store in accordance with local regulations. Store in a segregated and approved area. Store away from direct sunlight in a dry, cool and
	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.
occupational hygiene	material is handled, stored and processed. Workers should wash hands
Advice on general	: Eating, drinking and smoking should be prohibited in areas where this
	Use a suitable hand truck for cylinder movement.
	Protect cylinders from physical damage; do not drag, roll, slide, or drop.
	rated for cylinder pressure. Close valve after each use and when empty.
	be hazardous. Do not puncture or incinerate container. Use equipment
	free from grease and oil. Empty containers retain product residue and can
	incompatible materials and combustible materials. Keep reduction valves
	respirator when ventilation is inadequate. Keep away from clothing,
	Avoid breathing gas. Use only with adequate ventilation. Wear appropriate
	Contains gas under pressure. Avoid contact with eyes, skin and clothing.
Protective measures	: Put on appropriate personal protective equipment (see Section 8).
Precautions for sale handling	



Safety Data Sheet

Leland Limited Inc. Product: Nitrous Oxide Revised on:Jan 29,2021

incompatibilities	well-ventilated area, away from incompatible materials (see Section 10). Store locked up. Separate from acids, alkaline, 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 40C (104F).			
8. Exposure Controls and P Control parameters Occupational exposure limits Ingredient name Dinitrogen Oxide	Exposure limits ACGIH TLV (United States, 6/20/13) TWA: 90 mg/m ³ , 8 hours TWA: 50 ppm, 8 hours NIOSH REL (United States, 4/20/13) TWA: 46 mg/m ³ , 10 hours TWA: 25 ppm, 10 hours			
Appropriate engineering : controls Environmental exposure : control	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. 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 measures Hygiene measures : Eye/Face protection :	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking, using the lavatory and at the end of your shift. 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. 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			



Safety Data Sheet

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.

9. Physical and Chemical Properties

Appearance		•			
Physical state	:	Gas [Compress	sed gas]		
Color	:	Colorless	Colorless		
Molecular weight	:	44.01 g/mol			
Molecular formula	:	N2-O			
Boiling/condensation point		-88.5C (-127.3F	-)		
Melting/freezing point	:	-90.8C (-131.4F	-)		
Critical temperature	:	36.55C (97.8F)			
Odor	:	Characteristic			
Odor threshold	:	Not available.			
рН	:	Not available.			
Flash point	:	[Product does r	not sustain combustion.]		
Burning time	:	Not applicable.			
Burning rate	:	Not applicable.			
Evaporation rate	:	Not available.			
Flammability (solid, gas)	:	Extremely flammable in the presence of the following materials or conditions: reducing materials, combustible materials and organic			
		materials.			
Lower and upper explosive	:	Not available.			
(flammable) limits					
Vapor pressure	:	745 psig			
Vapor density	:	1.53 (Air = 1)	Liquid Density@BP: 76.8 lb/ft3 (1230 kg/m3)		
Specific Volume	:	8.6957 ft ³ /lb			
Gas Density	:	0.115 lb/ft ³			
Relative density	:	Not applicable.			
Solubility	:	Not available.			
Solubility in Water		1.2 g/l			
Partition coefficient:	:	0.36			
n-octanol/water					



Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
SADT	:	Not available.
Viscosity	:	Not applicable.

10. Stability and Reactivity

To olubility and reading	·y	
Reactivity	:	No specific test data related to reactivity is 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.
Incompatibility with various substances		Extremely reactive or incompatible with the following materials: oxidizing materials, reducing materials and combustible materials.
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hazardous polymerization	:	Under normal conditions of storage and use, hazardous polymerization will not occur.

11. Toxicological Information

Information on toxicological effects

inionnation on toxicological en	ec	13			
Acute toxicity	:	Not available.			
Irritation / Corrosion	:	Not available.			
Sensitization	:	Not available.			
Mutagenicity	:	Not available.			
Carcinogenicity	:	Not available.			
Reproductive toxicity	:	Not available.			
Classification	:	Product name	OSHA	IARC	NTP
Classification		Dinitrogen Oxide	-	3	-
Teratogenicity	:	Not available.			
Specific target organ toxicity	:	Product name	Category	Route of	Target
(single exposure)				exposure	organs
		Dinitrogen Oxide	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	:	May cause eye irritation burns or frostbite.	on. Contact with ra	apidly expanding (gas may cause
Inhalation	:	Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness. Exposure to decomposition products may			
		drowsiness and dizzin	less. Exposure to	aecomposition pr	oducts may
N2O SDS rev6		Page 7 d	of 11		

LELAND)	Safety Da	ata Sheet	Leland Limited Inc. Product: Nitrous Oxide Revised on:Jan 29,2021
		cause a health haza exposure.	rd. Serious effects may b	e delayed following
Skin contact	:	burns or frostbite.		expanding gas may cause
Ingestion	:	Can cause central n is a gas, refer to the	ervous system (CNS) de inhalation section.	pression. Since this product
Symptoms related to the phy	/sical	, chemical and toxico	logical characteristics	
Eye contact	:	No specific data.	C C	
Inhalation	:		may include the following ss/fatigue, dizziness/verti	
Skin contact	:	No specific data.	0 /	
ingestion	:	No specific data.		
Delayed and immediate effe	cts ai	nd also chronic effect	s from short and long tern	n 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 effect	cts –	Not available.		
General	:	-	t effects or critical hazard	
Carcinogenicity		•	t effects or critical hazard	
Mutagenicity	:	-	t effects or critical hazard	
Teratogenicity	:	Ũ	t effects or critical hazard	
Developmental effects		0	t effects or critical hazard	
Fertility effects		No known significan	t effects or critical hazard	S.
Numerical measures of toxic	ity			
Acute toxicity estimates	:	Not available.		
12. Ecological Information	on			
Toxicity	:	Not available.		
Persistence and	:	Not available.		
degradability				
Bioaccumulative potential				
Product/Ingredient name		Log Pow	BCF	Potential

Mobility is soil		
Soil/Water partition	: Not available.	
coefficient (K _{oc})		
Other adverse effects	: No known significant	t e

: No known significant effects or critical hazards.

-

low

0.36

Dinitrogen Oxide

13. Disposal Considerations

Discharge of Nitrous Oxide		Gradually release in open air.
Disposal of Cylinders	:	If gas remains in cylinders, release gas with proper equipment and dispose of cylinders as incombustible waste. For empty cylinders, check for a puncture hole and dispose of as incombustible waste. Do not dispose of cylinders without first checking that all gas has been released.

14. Transport Information

DOT / IMDG	:	Nitrous Oxide
Shipping Name		
UN Number	:	UN 1070
Hazard Class (Division)	:	2 (2.2)
Subsidiary Hazard Class	:	5.1
Placard (When required)	:	Nonflammable gas, Oxidizer



Special Shipping Information	:	See CFR 49, 172.101, 173.306 for exceptions of labeling.
IMDG / IMO	:	Receptacles, small containing gas (Gas Cartridge $<$ 50ml)
Proper Shipping Name		
UN Number	:	UN 2037
Hazard Class (Division)	:	2 (2.2)
Special Provision	:	See Code 191
ΙΑΤΑ	:	Gas Cartridges (Oxidizing)
Proper Shipping Name		
UN Number	:	UN 2037
Hazard Class (Division)	:	2 (2.2)
Subsidiary Hazard Class	:	5.1
Special Provision	:	See Code A167

15. Regulatory Information

The following selected regulatory requirements may apply to this product. Not all such requirements are identified. Users of this product are solely responsible for compliance with all applicable federal, state, and local regulations.

U.S. Federal Regulations	:	302/304 (40 CF	R 355 Appendix A	s are listed under SARA Sections a), SARA Section 313 (40 CFR 372.65), 12(b), or require an OSHA process
SARA 311/312	:	Fire hazard		: Yes
N2O_SDS_rev6		Pa	ge 9 of 11	



Hazardous Categories	Sudden release of press	ure : Yes
	Reactive	: No
	Immediate (acute) health	hazard : Yes
	Delayed (chronic) health	hazard : No
State Regulations	: Massachusetts	: This material is listed.
5	New York	: This material is not listed.
	New Jersey	: This material is listed.
	Pennsylvania	: This material is listed.
	California	: This material is not listed.
International Regulations		
International Regulations	: Canada inventory	This material is listed or exempted.
	Australia inventory (AICS	
	China inventory (IECSC)	•
	Japan inventory	This material is listed or exempted.
	Korea inventory	This material is listed or exempted.
	Malaysia inventory	Not determined.
	(EHS Register)	
	New Zealand inventory of	of This material is listed or exempted.
	Chemicals (NZIoC)	
	Philippines inventory	This material is listed or exempted.
	(PICCS)	·····
	Taiwan inventory (CSNN	I) Not determined.
16. Other Information		
16. Other information		
Lienand Dating Overlages		LIMIC Detinge
Hazard Rating Systems	: NFPA Ratings	HMIS Ratings
Hazard Rating Systems	Health = 2	Health = 1
Hazard Rating Systems	Health = 2 Flammability = 0	Health = 1 Flammability = 0
Hazard Rating Systems	Health = 2 Flammability = 0 Reactivity = 0	Health = 1
Hazard Rating Systems	Health = 2 Flammability = 0	Health = 1 Flammability = 0
Hazard Rating Systems	Health = 2 Flammability = 0 Reactivity = 0	Health = 1 Flammability = 0
Hazard Rating Systems	Health = 2 Flammability = 0 Reactivity = 0	Health = 1 Flammability = 0
Key to abbreviations	Health = 2 Flammability = 0 Reactivity = 0 Special = OX	Health = 1 Flammability = 0 Physical hazards = 3
Key to abbreviations ACGIH	Health = 2 Flammability = 0 Reactivity = 0 Special = OX : American Conference of Go	Health = 1 Flammability = 0
Key to abbreviations ACGIH BCF	Health = 2 Flammability = 0 Reactivity = 0 Special = OX : American Conference of Go : Bioconcentration Factor	Health = 1 Flammability = 0 Physical hazards = 3
Key to abbreviations ACGIH BCF CAS	Health = 2 Flammability = 0 Reactivity = 0 Special = OX : American Conference of Go : Bioconcentration Factor : Chemical Abstract Services	Health = 1 Flammability = 0 Physical hazards = 3
Key to abbreviations ACGIH BCF CAS CERCLA	Health = 2 Flammability = 0 Reactivity = 0 Special = OX : American Conference of Go : Bioconcentration Factor : Chemical Abstract Services : Comprehensive Environme	Health = 1 Flammability = 0 Physical hazards = 3 overnmental Industrial Hygienists ntal Response, Compensation, and Liability Act
Key to abbreviations ACGIH BCF CAS CERCLA CFR	Health = 2 Flammability = 0 Reactivity = 0 Special = OX : American Conference of Go : Bioconcentration Factor : Chemical Abstract Services : Comprehensive Environme : United States Code of Fede	Health = 1 Flammability = 0 Physical hazards = 3 overnmental Industrial Hygienists Intal Response, Compensation, and Liability Act eral Regulations
Key to abbreviations ACGIH BCF CAS CERCLA CFR DOT	Health = 2 Flammability = 0 Reactivity = 0 Special = OX American Conference of Go Bioconcentration Factor Chemical Abstract Services Comprehensive Environme United States Code of Fede Department of Transportation	Health = 1 Flammability = 0 Physical hazards = 3 overnmental Industrial Hygienists ntal Response, Compensation, and Liability Act eral Regulations
Key to abbreviations ACGIH BCF CAS CERCLA CFR DOT GHS	 Health = 2 Flammability = 0 Reactivity = 0 Special = OX American Conference of Go Bioconcentration Factor Chemical Abstract Services Comprehensive Environme United States Code of Fede Department of Transportatio Globally Harmonized Syste 	Health = 1 Flammability = 0 Physical hazards = 3 overnmental Industrial Hygienists intal Response, Compensation, and Liability Act eral Regulations on m of Classification and Labeling of Chemicals
Key to abbreviations ACGIH BCF CAS CERCLA CFR DOT GHS IATA	 Health = 2 Flammability = 0 Reactivity = 0 Special = OX : American Conference of Go Bioconcentration Factor Chemical Abstract Services Comprehensive Environme United States Code of Fedee Department of Transportatio Globally Harmonized Syste International Air Transport A 	Health = 1 Flammability = 0 Physical hazards = 3 overnmental Industrial Hygienists ntal Response, Compensation, and Liability Act eral Regulations on m of Classification and Labeling of Chemicals Association
Key to abbreviations ACGIH BCF CAS CERCLA CFR DOT GHS	 Health = 2 Flammability = 0 Reactivity = 0 Special = OX : American Conference of Go Bioconcentration Factor Chemical Abstract Services Comprehensive Environme United States Code of Fedee Department of Transportatio Globally Harmonized Syste International Air Transport A International Maritime Dang 	Health = 1 Flammability = 0 Physical hazards = 3 overnmental Industrial Hygienists ntal Response, Compensation, and Liability Act eral Regulations on m of Classification and Labeling of Chemicals Association gerous Goods
Key to abbreviations ACGIH BCF CAS CERCLA CFR DOT GHS IATA	 Health = 2 Flammability = 0 Reactivity = 0 Special = OX : American Conference of Go Bioconcentration Factor Chemical Abstract Services Comprehensive Environme United States Code of Fedee Department of Transportatio Globally Harmonized Syste International Air Transport A 	Health = 1 Flammability = 0 Physical hazards = 3 overnmental Industrial Hygienists ntal Response, Compensation, and Liability Act eral Regulations on m of Classification and Labeling of Chemicals Association gerous Goods
Key to abbreviations ACGIH BCF CAS CERCLA CFR DOT GHS IATA IMDG	 Health = 2 Flammability = 0 Reactivity = 0 Special = OX : American Conference of Go Bioconcentration Factor Chemical Abstract Services Comprehensive Environme United States Code of Fedee Department of Transportatio Globally Harmonized Syste International Air Transport A International Maritime Dang 	Health = 1 Flammability = 0 Physical hazards = 3 overnmental Industrial Hygienists Intal Response, Compensation, and Liability Act eral Regulations on m of Classification and Labeling of Chemicals Association jerous Goods nization
Key to abbreviations ACGIH BCF CAS CERCLA CFR DOT GHS IATA IMDG IMO	Health = 2 Flammability = 0 Reactivity = 0 Special = OX American Conference of Go Bioconcentration Factor Chemical Abstract Services Comprehensive Environme United States Code of Fede Department of Transportatio Globally Harmonized Syste International Air Transport A International Maritime Dang International Maritime Orga	Health = 1 Flammability = 0 Physical hazards = 3 overnmental Industrial Hygienists antal Response, Compensation, and Liability Act eral Regulations on m of Classification and Labeling of Chemicals Association gerous Goods nization ther partition coefficient
Key to abbreviations ACGIH BCF CAS CERCLA CFR DOT GHS IATA IMDG IMO Log Pow	Health = 2 Flammability = 0 Reactivity = 0 Special = OX American Conference of Go Bioconcentration Factor Chemical Abstract Services Comprehensive Environme United States Code of Fede Department of Transportation Globally Harmonized Syste International Air Transport A International Maritime Dang International Maritime Orga Logarithm of the octanol/wa	Health = 1 Flammability = 0 Physical hazards = 3 overnmental Industrial Hygienists intal Response, Compensation, and Liability Act eral Regulations on m of Classification and Labeling of Chemicals Association jerous Goods nization iter partition coefficient ational Safety and Health
Key to abbreviations ACGIH BCF CAS CERCLA CFR DOT GHS IATA IMDG IMO Log Pow NIOSH OSHA	 Health = 2 Flammability = 0 Reactivity = 0 Special = OX American Conference of Go Bioconcentration Factor Chemical Abstract Services Comprehensive Environme United States Code of Fedee Department of Transportation Globally Harmonized Syste International Air Transport A International Maritime Dang International Maritime Orga Logarithm of the octanol/wa National Institute for Occupational Safety and Heiles 	Health = 1 Flammability = 0 Physical hazards = 3 overnmental Industrial Hygienists intal Response, Compensation, and Liability Act eral Regulations on m of Classification and Labeling of Chemicals Association jerous Goods nization iter partition coefficient ational Safety and Health
Key to abbreviations ACGIH BCF CAS CERCLA CFR DOT GHS IATA IMDG IMO Log Pow NIOSH OSHA STEL	 Health = 2 Flammability = 0 Reactivity = 0 Special = OX American Conference of Go Bioconcentration Factor Chemical Abstract Services Comprehensive Environme United States Code of Fedee Department of Transportation Globally Harmonized Syste International Air Transport A International Maritime Dang International Maritime Orga Logarithm of the octanol/wa National Institute for Occupational Safety and He Short-term Exposure Limit 	Health = 1 Flammability = 0 Physical hazards = 3 overnmental Industrial Hygienists antal Response, Compensation, and Liability Acter aral Regulations on m of Classification and Labeling of Chemicals Association gerous Goods nization ther partition coefficient ational Safety and Health ealth Administration
Key to abbreviations ACGIH BCF CAS CERCLA CFR DOT GHS IATA IMDG IMO Log Pow NIOSH OSHA	 Health = 2 Flammability = 0 Reactivity = 0 Special = OX American Conference of Go Bioconcentration Factor Chemical Abstract Services Comprehensive Environme United States Code of Fedee Department of Transportation Globally Harmonized Syste International Air Transport A International Maritime Dang International Maritime Orga Logarithm of the octanol/wa National Institute for Occupational Safety and Heiles 	Health = 1 Flammability = 0 Physical hazards = 3 overnmental Industrial Hygienists antal Response, Compensation, and Liability Acter aral Regulations on m of Classification and Labeling of Chemicals Association gerous Goods nization ther partition coefficient ational Safety and Health ealth Administration



TSCA **Toxic Substances Control Act** : TWA

Time Weighted Average :

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 they are the only hazards that exist.