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Safety Data Sheet acc. to OSHA HCS

Printing date 03/02/2020

Reviewed on 03/02/2020

1 Identification · Product identification: 8010-01-567-7346 .Trade name: Two-Component Aerosol Coating- Mil-PRF-23377 Type II Class II · Application of the substance / the mixture- Lacquer · Details of the supplier of the safety data sheet · Manufacturer/Supplier: Products Techniques Inc. 3271 S Riverside Ave, Bloomington, CA 92316 · Information department: Department Product Safety · Emergency telephone number: 909-877-3951 Filled by **Delaware Paint Company** 8455 Rausch Drive Plain City, Ohio USA 43064 DELAWARE PAINT COMPANY F 740-368-9981 2 Hazard(s) identification · Classification of the substance or mixture GHS02 Flame Flam. Aerosol 1 H222 Extremely flammable aerosol. GHS08 Health hazard STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure. GHS05 Corrosion Skin Corr. 1B H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage. GHS07 H302 Harmful if swallowed. Acute Tox. 4 Acute Tox. 4 H332 Harmful if inhaled. Skin Sens. 1 H317 May cause an allergic skin reaction. STOT SE 3 H336 May cause drowsiness or dizziness. · Label elements · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).

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Trade name: Two-Component Aerosol Coating- Mil-PRF-23377 Type II Class II

	(Contd. c	of page 1)
· Hazard pictograms		F 181 -)
GHS02 GHS05	GHS07 GHS08	
· Signal word Danger		
. .		
	components of labeling:	
Benzyl alcohol butan-1-ol		
	this should be also be and quein a	
	-trimethylcyclohexylamine)propyl)ethylenediamine	
2,2'-iminodiethylami		
	phenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)
· Hazard statements	phenor II (epieniorityarini), epoxy resul (namber average molecular weight = 700)	/
-	ely flammable aerosol.	
	l if swallowed or if inhaled.	
	severe skin burns and eye damage.	
H317 May car	use an allergic skin reaction.	
	use drowsiness or dizziness.	
	use damage to organs through prolonged or repeated exposure.	
• Precautionary staten		
	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.	
	Do not breathe spray.	
	Vear protective gloves / eye protection.	
	n case of inadequate ventilation wear respiratory protection. f on skin: Wash with plenty of water.	
	f in eyes: Rinse cautiously with water for several minutes. Remove contact lenses,	if
	resent and easy to do. Continue rinsing.	IJ
	mmediately call a poison center/doctor.	
	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.	
	Dispose of contents/container in accordance with local/regional/national/internation	onal
	egulations.	
· Classification system		
· NFPA ratings (scale	0 - 4)	
Health	- 3	
4 Fire =		
	vity = 3	
\checkmark		
· HMIS-ratings (scale	0 - 4)	
HEALTH *3 Healt	h = *3	
FIRE 4 Fire =		
	ivity = 3	
• Other hazards		
• Results of PBT and v		
• PBT: Not applicable.		
• vPvB: Not applicable	<i>/.</i>	

3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

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· Dangerous components:	(Contd. of page 2
CAS: 115-10-6 EINECS: 204-065-8 Index number: 603-019-00-8	dimethyl ether Flam. Gas 1, H220 Press. Gas, H280	75-≤100%
CAS: 100-51-6 EINECS: 202-859-9 Index number: 603-057-00-5	Benzyl alcohol	2.5-<5%
CAS: 540-88-5 EINECS: 208-760-7 Index number: 607-026-00-7	tert-butyl acetate 🚸 Flam. Liq. 2, H225	2.5-<5%
CAS: 71-36-3 EINECS: 200-751-6 Index number: 603-004-00-6	 butan-1-ol Flam. Liq. 3, H226 Eye Dam. 1, H318 Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335- H336 	<2.5%
CAS: 2855-13-2 EINECS: 220-666-8 Index number: 612-067-00-9	3-aminomethyl-3,5,5-trimethylcyclohexylamine Skin Corr. 1B, H314; Eye Dam. 1, H318 Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317	<2.5%
CAS: 78-93-3 EINECS: 201-159-0 Index number: 606-002-00-3	butanone Flam. Liq. 2, H225 Eye Irrit. 2A, H319; STOT SE 3, H336	<2.5%
CAS: 1760-24-3 EINECS: 217-164-6	N-(3-(trimethoxysilyl)propyl)ethylenediamine STOT RE 2, H373 Skin Corr. 1B, H314; Eye Dam. 1, H318 Skin Sens. 1, H317; STOT SE 3, H335	≤ 0.5%

4 First-aid measures

· Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

• After inhalation:

Supply fresh air and to be sure call for a doctor.

- 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. Then consult a doctor.
- After swallowing:

Immediately call a doctor.

- Drink copious amounts of water and provide fresh air. Immediately call a doctor.
- · Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture During heating or in case of fire poisonous gases are produced.
- · Advice for firefighters -

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Trade name: Two-Component Aerosol Coating- Mil-PRF-23377 Type II Class II

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• Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

- *Personal precautions, protective equipment and emergency procedures Mount respiratory protective device. Wear protective equipment. Keep unprotected persons away.*
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:
- Use neutralizing agent.
- Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.
- **Reference to other sections** See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.
- · Protective Action Criteria for Chemicals

115-10-6	dimethyl ether	3,000 ppn
	Benzyl alcohol	30 ppm
	tert-butyl acetate	600 ppm
	butan-1-ol	60 ppm
	butanone	200 ppm
	Precipitated silica (Silica-Amorphous)	18 mg/m ³
	N-(3-(trimethoxysilyl)propyl)ethylenediamine	$\frac{13 \text{ mg/m}}{23 \text{ mg/m}^3}$
	2,2'-iminodiethylamine	23 mg/m 3 ppm
	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight \leq 700)	90 mg/m ³
PAC-2:		
115-10-6	dimethyl ether	3800* ppi
100-51-6	Benzyl alcohol	52 ppm
540-88-5	tert-butyl acetate	1,700 ppn
71-36-3	butan-1-ol	800 ppm
78-93-3	butanone	2700* ppi
112926-00-8	Precipitated silica (Silica-Amorphous)	200 mg/m
1760-24-3	N-(3-(trimethoxysilyl)propyl)ethylenediamine	250 mg/m
111-40-0	2,2'-iminodiethylamine	8.5 ppm
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight \leq 700)	990 mg/m
PAC-3:	·	·
115-10-6	dimethyl ether	7200* ppm
100-51-6	Benzyl alcohol	740 ppm
540-88-5	tert-butyl acetate	10,000 ppn
71-36-3	butan-1-ol	8000** ppi
78-93-3	butanone	4000* ppm
112926-00-8	Precipitated silica (Silica-Amorphous)	1,200 mg/m
1760-24-3	N-(3-(trimethoxysilyl)propyl)ethylenediamine	1,500 mg/n
111 10 0	2,2'-iminodiethylamine	51 ppm

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25068-38-6 reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average 5,900 molecular weight ≤ 700)

(Contd. of page 4) 5,900 mg/m³

7 Handling and storage

- · Handling:
- Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- \cdot Information about protection against explosions and fires:
- Keep ignition sources away Do not smoke. Keep respiratory protective device available.
- \cdot Conditions for safe storage, including any incompatibilities
- Storage:
- **Requirements to be met by storerooms and receptacles:** 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.
- Storage class: 2 B
- *Specific end use(s) No further relevant information available.*

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.
- · Control parameters

· Com	ponents with limit values that require monitoring at the workplace:
115-	10-6 dimethyl ether
WEF	EL Long-term value: 1000 ppm
100-	51-6 Benzyl alcohol
WEF	EL Long-term value: 10 ppm
540-	88-5 tert-butyl acetate
PEL	Long-term value: 950 mg/m ³ , 200 ppm
REL	Long-term value: 950 mg/m ³ , 200 ppm
TLV	Short-term value: 712 mg/m ³ , 150 ppm
	Long-term value: 238 mg/m ³ , 50 ppm
71-3	6-3 butan-1-ol
PEL	Long-term value: 300 mg/m ³ , 100 ppm
REL	Ceiling limit value: 150 mg/m³, 50 ppm Skin
TLV	Long-term value: 61 mg/m³, 20 ppm
78-9	3-3 butanone
PEL	Long-term value: 590 mg/m ³ , 200 ppm
REL	0 / 11
	Long-term value: 590 mg/m³, 200 ppm
TLV
	Long-term value: 590 mg/m³, 200 ppm BEI
U	edients with biological limit values:
	3-3 butanone
BEI	2 mg/L
	Medium: urine
	Time: end of shift Parameter: MEK
	(Contd. on page 6)

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Printing date 03/02/2020 Reviewed on 03/02/2020 Trade name: Two-Component Aerosol Coating- Mil-PRF-23377 Type II Class II (Contd. of page 5) • Additional information: The lists that were valid during the creation were used as basis. · Exposure controls · Personal protective equipment: · General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin. Avoid contact with the eyes. · Breathing equipment: Filter A2/P3 In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air. · Protection of hands: Protective gloves · Material of gloves Butyl rubber, BR 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. · Penetration time of glove material Butyl rubber gloves with a thickness of 0.4 mm are resistant to: Acetone: 480 min Butyl acetate: 60 min Ethyl acetate: 170 min Xylene: 42 min Butyl rubber gloves with a thickness of 0.4 mm are solvent resistant for 42-480 minutes. As protective measure, we recommend that users and responsible persons for work safety assume solvent resistance length of 42 minutes. Considering the data in section 3 of this SDS, one can assume longer resistance length in particular cases. · Eye protection: Tightly sealed goggles 9 Physical and chemical properties · Information on basic physical and chemical properties · General Information · Appearance: Form: Aerosol Color: According to product specification

· Odor: · Odor threshold:

· pH-value:

· Change in condition

Undetermined. Melting point/Melting range:

Characteristic

Not determined.

Not determined.

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Boiling point/Boiling range:	Not applicable, as aerosol.	
· Flash point:	Not applicable, as aerosol.	
· Flammability (solid, gaseous):	Not applicable.	
· Ignition temperature:	240 °C (464 °F)	
• Decomposition temperature:	Not determined.	
· Danger of explosion:	Not determined.	
· Explosion limits:		
Lower:	3.3 Vol %	
Upper:	26.2 Vol %	
· Vapor pressure at 20 °C (68 °F):	4000 hPa (3000.2 mm Hg)	
· Density:	Not determined.	
· Relative density	Not determined.	
· Vapor density	Not determined.	
· Evaporation rate	Not applicable.	
\cdot Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/wate	r): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	93.6 %	
Water:	0.0 %	
VOC content:	936.8 g/l / 7.82 lb/gal	
Solids content:	13.7 %	
• 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 No further relevant information available.
- *Incompatible materials:* No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification:				
100-51-6 Benzyl alcohol				
Inhalative	e LC50/4h	4.178 mg/l (rat)		
71-36-3 b	71-36-3 butan-1-ol			
Oral	LD50	2292 mg/kg (rat)		
Dermal	LD50	3430 mg/kg (rabbit)		
		(Contd. on page 8)		

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		(Contd. of page 2		
Inhalative	LC50/4 h	17000 mg/m3 (rat)		
78-93-3 butanone				
Oral	LD50	>2193 mg/kg (rat)		
Dermal	LD50	>5000 mg/kg (rabbit)		
Inhalative	LC50/4 h	34 mg/m3 (rat)		
· Primary ir				
		ffect on skin and mucous membranes.		
• on the eye Strong cau				
		e danger of severe eye injury.		
		ation possible through skin contact.		
		cal information:		
		following dangers according to internally approved calculation methods for		
preparatio Harmful	ns:			
Corrosive				
Irritant				
		o a strong caustic effect on mouth and throat and to the danger of perforation of		
esopnagus	and stomac	n.		
· Carcinoge	-			
		Agency for Research on Cancer)		
112926-00	-8 Precipit	ated silica (Silica-Amorphous) 3		
· NTP (Nati	onal Toxico	ology Program)		
N7 C 1				
None of th	e ingredient	ts is listed.		
		ts is listed. nal Safety & Health Administration)		
· OSHA-Ca		nal Safety & Health Administration)		
· OSHA-Ca	(Occupatio	nal Safety & Health Administration)		
• OSHA-Ca None of th	(Occupatio e ingredient	nal Safety & Health Administration) as is listed.		
· OSHA-Ca	(Occupatio e ingredient	nal Safety & Health Administration) as is listed.		
• OSHA-Ca None of th	(Occupatio e ingredient	nal Safety & Health Administration) as is listed.		
• OSHA-Ca None of th 2 Ecologic	(Occupatio e ingredient al inform	nal Safety & Health Administration) as is listed.		
• OSHA-Ca None of th 2 Ecologic • Toxicity • Aquatic to	(Occupatio e ingredient al inform	anal Safety & Health Administration) as is listed. ation		
• OSHA-Ca None of th 2 Ecologic • Toxicity • Aquatic to 115-10-6 d	(Occupatio e ingredient al inform xicity:	anal Safety & Health Administration) ts is listed. ation ter		
• OSHA-Ca None of th 2 Ecologic • Toxicity • Aquatic to 115-10-6 a EC50 / 96	(Occupatio e ingredient al inform xicity: limethyl eth h 155 mg/l	anal Safety & Health Administration) ts is listed. ation ter		
• OSHA-Ca None of th 2 Ecologic • Toxicity • Aquatic to 115-10-6 a EC50 / 96 LC50 / 48	(Occupatio e ingredient al inform xicity: limethyl eth h 155 mg/l	anal Safety & Health Administration) ts is listed. ation er (algae) g/l (daphnia magna)		
• OSHA-Ca None of th 2 Ecologic • Toxicity • Aquatic to 115-10-6 a EC50 / 96 LC50 / 48	(Occupatio e ingredient al inform xicity: limethyl eth h 155 mg/l h >4000 m h >4000 m	anal Safety & Health Administration) ts is listed. ation er (algae) g/l (daphnia magna)		
• OSHA-Ca None of th 2 Ecologic • Toxicity • Aquatic to 115-10-6 a EC50/96 LC50/48 LC50/96 71-36-3 bu	(Occupatio e ingredient al inform xicity: limethyl eth h 155 mg/l h >4000 m h >4000 m	nal Safety & Health Administration) ts is listed. ation er (algae) g/l (daphnia magna) g/l (fish)		
• OSHA-Ca None of th 2 Ecologic • Toxicity • Aquatic to 115-10-6 a EC50/96 LC50/48 LC50/96 71-36-3 bu	(Occupatio e ingredient al inform xicity: limethyl eth h 155 mg/l h >4000 m h >4000 m ttan-1-ol h 1376 mg/	nal Safety & Health Administration) ts is listed. ation er (algae) g/l (daphnia magna) g/l (fish)		
• OSHA-Ca None of th 2 Ecologic • Toxicity • Aquatic to 115-10-6 a EC50/96 LC50/96 71-36-3 bu LC50/96 78-93-3 bu	(Occupatio e ingredient al inform xicity: limethyl eth h 155 mg/l h >4000 m h >4000 m tan-1-ol h 1376 mg/ tanone	nal Safety & Health Administration) ts is listed. ation er (algae) g/l (daphnia magna) g/l (fish)		
• OSHA-Ca None of th 2 Ecologic • Toxicity • Aquatic to 115-10-6 a EC50/96 LC50/96 71-36-3 bu LC50/96 78-93-3 bu LC50/48	(Occupatio e ingredient al inform xicity: limethyl eth h 155 mg/l h >4000 m b >4000 m tan-1-ol h 1376 mg/ tanone h 308 mg/l	anal Safety & Health Administration) ts is listed. ation ter (algae) g/l (daphnia magna) g/l (fish) /l (fish)		

· Behavior in environmental systems:

- *Bioaccumulative potential* No further relevant information available.
- · Mobility in soil No further relevant information available.
- Additional ecological information:

· General notes:

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

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

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

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· 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:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation:

Disposal must be made according to official regulations.

Contains epoxy constituents. See information supplied by the manufacturer.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, *i.e. electric lights. Do not pierce or burn, even after use.*

Do not spray on a naked flame or any incandescent material.

Buildup of explosive mixtures possible without sufficient ventilation.

UN-Number	10/10/20
DOT, IMDG, IATA	UN1950
UN proper shipping name	
DOT	Aerosols, flammable
IMDG	AEROSOLS
IATA	AEROSOLS, flammable
Transport hazard class(es)	
DOT	
2	
Class	2.1
Label	2.1
	2.1
IMDG, IATA	
Class	2.1
Label	2.1
Packing group	
DOT, IMDG, IATA	not regulated
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Gases
Hazard identification number (Kem	
EMS Number:	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

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	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 and the IBC Code	Not applicable.
· Transport/Additional information:	
· DOT · Quantity limitations	On passenger aircraft/rail: 75 kg On cargo aircraft only: 150 kg
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E0 Not permitted as Excepted Quantity
· UN ''Model Regulation'':	UN 1950 AEROSOLS, 2.1

15 Regulatory information

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara

None of the	ingredients is listed.	
Section 313	(Specific toxic chemical listings):	
71-36-3 but	tan-1-ol	
TSCA (Toxi	ic Substances Control Act):	
115-10-6	dimethyl ether	ACTIV
100-51-6	Benzyl alcohol	ACTIV
540-88-5	tert-butyl acetate	ACTIV
71-36-3	butan-1-ol	ACTIV
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	ACTIV
78-9 <i>3-3</i>	butanone	ACTIV
1760-24-3	N-(3-(trimethoxysilyl)propyl)ethylenediamine	ACTIV
	2,2'-iminodiethylamine	ACTIV
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight \leq 700)	ACTIV
7732-18-5	water, distilled, conductivity or of similar purity	ACTIV
Hazardous A	Air Pollutants	
None of the	ingredients is listed.	
Proposition	65	
Chemicals k	known to cause cancer:	
None of the	ingredients is listed.	
Chemicals k	nown to cause reproductive toxicity for females:	
None of the	ingredients is listed.	
Chemicals k	nown to cause reproductive toxicity for males:	
None of the	ingredients is listed.	
		Contd. on page

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· Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	
Carcinogenic categories	
· EPA (Environmental Protection Agency)	
71-36-3 butan-1-ol	D
78-93-3 butanone	I
TLV (Threshold Limit Value established by ACGIH)	
None of the ingredients is listed.	
· NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

H220 Extremely flammable gas. H225 Highly flammable liquid and vapor. H226 Flammable liquid and vapor. H280 Contains gas under pressure; may explode if heated. H302 Harmful if swallowed. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H373 May cause damage to organs through prolonged or repeated exposure. · Date of preparation / last revision 03/02/2020 / -· Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit BEI: Biological Exposure Limit Flam. Gas 1: Flammable gases - Category 1 Flam. Aerosol 1: Aerosols - Category 1 Press. Gas: Gases under pressure - Compressed gas Flam. Liq. 2: Flammable liquids - Category 2 Flam. Liq. 3: Flammable liquids – Category 3 Acute Tox. 4: Acute toxicity - Category 4 Skin Corr. 1B: Skin corrosion/irritation - Category 1B

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Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A Skin Sens. 1: Skin sensitisation – Category 1 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

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