SAFETY DATA SHEET



HFO Duster and Freeze - ES1624E, ES1054E, ES1026E

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier	
Product name	: HFO Duster and Freeze - ES1624E, ES1054E, ES1026E
EC number	: 471-480-0
CAS number	: 29118-24-9
Product code	: ES1624E, ES1054E, ES1026E
Product description	: Duster, Freeze Spray
Product type	: Aerosol.
Other means of identification	: 1-Propene, 1,3,3,3-tetrafluoro-, (1E)-; trans-1,3,3,3-tetrafluoropropene; HFC-1234ze

1.2 Relevant identified uses of the substance or mixture and uses advised against

Not applicable.

1.3 Details of the supplier of the safety data sheet

Manufacturer Chemtronics 8125 Cobb Center Drive Kennesaw, GA 30152

Tel. 770-424-4888 or toll free 800-645-5244

Distributor

Importer ITW Contamination Control BV Saffierlaan 5 VZ-2132 Hoofddorp The Netherlands

Email: info@itw-cc.com

Tel: +31 88 1307 400 FAX: +31 88 1307 499

e-mail address of person : askchemtronics@chemtronics.com responsible for this SDS

National contact

ITW Contamination Control BV Saffierlaan 5 VZ-2132 Hoofddorp The Netherlands

Email: info@itw-cc.com

Tel: +31 88 1307 400 FAX: +31 88 1307 499

1.4 Emergency telephone number National advisory body/Poison Centre

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

Telephone number	1	EMERGENCY HEALTH INFORMATION:
		Chemtrec - 1-800-424-9300 or collect 703-527-3887
<u>Supplier</u>		
Telephone number	:	Chemtronics Product Information: 800-TECH-401 (800-832-4401) Chemtronics Customer Service: 800-645-5244 Chemtrec 800-424-9300
Hours of operation	:	Chemtrec - 1-800-424-9300 or collect 703-527-3887 For emergency responders 24/7
Information limitations	:	EMERGENCY HEALTH INFORMATION: EMERGENCY SPILL INFORMATION: Transport information

SECTION 2: Hazards identification

 2.1 Classification of the substance or mixture

 Product definition
 : Mono-constituent substance

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Aerosol 3, H229

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Signal word	1	Warning			
Hazard statements	1	ressurised container: May burst if heated.			
Precautionary statements					
Prevention	1	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use.			
Response	:	Not applicable.			
Storage	:	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.			
Disposal	:	Not applicable.			
Hazardous ingredients	:	HFO-1234ze Propellants. Liquefied compressed gas.			
Supplemental label elements	1	Not applicable.			
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.			
Special packaging requirem	er	<u>its</u>			
Containers to be fitted with child-resistant fastenings	:	Not applicable.			
Tactile warning of danger	:	Not applicable.			

2.3 Other hazards

HFO Duster and Freeze - ES1624E, ES1054E, ES1026E

SECTION 2: Hazards identification

Substance meets the	1	No.
criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII		P: Not available. B: Not available. T: No.
Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	Not available.
Other hazards which do not result in classification	:	Dermal contact with rapidly evaporating liquid could result in freezing of the tissues or frostbite. Ingestion of liquid can cause burns similar to frostbite.

SECTION 3: Composition/information on ingredients

3.1 Substances : Mono-constituent substance						
Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре		
HFO-1234ZE	EC: 471-480-0 CAS: 29118-24-9	100	Press. Gas Comp. Gas, H280	[A]		
			See Section 16 for the full text of the H statements declared above.			

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

Type

[A] Constituent

[B] Impurity

[C] Stabilising additive

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

SECTION 4: First aid measures

4.1 Description of 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 if irritation occurs.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 adverse health effects persist or are severe. 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	: May cause frostbite. If frostbite occurs, get medical attention. 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	: Ingestion of liquid can cause burns similar to frostbite. If frostbite occurs, get medical attention. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.
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HFO Duster and Freeze - ES1624E, I	ES1054E, ES1026E
SECTION 4: First aid	1 measures
	Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	ns and effects, both acute and delayed
Over-exposure signs/symp	<u>itoms</u>
Eye contact	: Adverse symptoms may include the following: irritation redness frostbite
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing drowsiness/fatigue dizziness/vertigo headache
Skin contact	: Adverse symptoms may include the following: frostbite cracking dryness pain or irritation redness
Ingestion	: Adverse symptoms may include the following: frostbite Irritating to mouth, throat and stomach.
4.2 Indication of any immed	iate medical attention and special treatment needed
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.
SECTION 5: Firefigh	ting measures
5.1 Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
5.2 Special hazards arising	from the substance or mixture
Hazards from the	: In a fire or if heated, a pressure increase will occur and the container may burst, with
substance or mixture	the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed. Runoff to sewer may create fire or explosion hazard.
Hazardous combustion products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds carbonyl halides
5.3 Advice for firefighters	
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. Move containers from fire area if this can be done without risk.

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Use water spray to keep fire-exposed containers cool.

SECTION 5: Firefighting measures

-		-
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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
Additional information	:	This product is not flammable at ambient temperatures and atmospheric pressure. However, it can be ignited when mixed with air under pressure and exposed to strong ignition sources.

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	ote	ctive 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. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurised contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirato 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".		
6.2 Environmental precautions	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).		
6.3 Methods and material for	со	ntainment and cleaning up		
Small spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.		
Large spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the		

6.4 Reference to other sections See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

same hazard as the spilt product.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Pressurised container: protect from sunlight and do not expose to temperature exceeding 50°C. Do not pierce or burn, even after use. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment.
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SECTION 7: Handling and storage

Use only non-sparking tools. Empty containers retain product residue and can be hazardous.

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.

7.2 Conditions for safe storage, including any incompatibilities

Do not store below the following temperature: 50°C (122°F). Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Use appropriate containment to avoid environmental contamination.

7.3 Specific end use(s)	
Recommendations	: Not available.
Industrial sector specific solutions	: Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

Recommended monitoring procedures If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls

: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures

SECTION 8: Exposure controls/personal protection

	· · ·
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	 Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

<u>Appearance</u>	
Physical state	: Gas. [Aerosol.]
Colour	: Clear. Colourless.
Odour	: Characteristic. [Slight]
Odour threshold	: Not available.
рН	: Not applicable.
Melting point/freezing point	: Not available.
Initial boiling point and boiling range	: -19°C
Flash point	: Not applicable.
Evaporation rate	: >1 (butyl acetate = 1)
Flammability (solid, gas)	: Not available.
Upper/lower flammability or explosive limits	: Not available.
Vapour pressure	: Not available.
Vapour density	: 4 [Air = 1]
Relative density	: 1.13
Solubility(ies)	: Not available.

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SECTION 9: Physical and chemical properties		
Partition coefficient: n-octanol/ water	: 1.6	
Auto-ignition temperature	: 368°C	
Decomposition temperature	: Not available.	
Viscosity	: Not available.	
Explosive properties	: Not available.	
Oxidising properties	: Not available.	
9.2 Other information		
Solubility in water	: 0.373 g/l	
Type of aerosol	: Spray	
No additional information.		

SECTION 10: Stability and reactivity

10.1 Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	:	The product is stable.
10.3 Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	:	Avoid all possible sources of ignition (spark or flame).
10.5 Incompatible materials	:	No specific data.
10.6 Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

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11.1 Information on toxicological effects

Acute toxicity

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Product/ingredient name	Result	Species	Dose	Exposure
HFO-1234ZE	LC50 Inhalation Gas.	Rat	207000 ppm	4 hours
Conclusion/Summary	: Not available.			
Irritation/Corrosion				
Conclusion/Summary	: Not available.			
<u>Sensitisation</u>				
Conclusion/Summary	: Not available.			
<u>Mutagenicity</u>				
Product/ingredient name	Test	Experime	nt	Result
HFO-1234ZE	-	Experiment: In vitro Subject: Mammalian-F Cell: Somatic		Negative
	475 Mammalian Bone Marrow Chromosomal Aberration Test	Experiment: In vivo Subject: Mammalian-A Cell: Somatic		Negative
Conclusion/Summary	: Not available.			
Carcinogenicity				
our onno gonnonty				

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: No previous validation

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SECTION 11: Toxicological information

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Product/ingredient name	Result	Species	Dose	Exposure
HFO-1234ZE	Negative - Inhalation Negative - Inhalation	Rabbit Rat	15000 ppm 15000 ppm	-

Conclusion/Summary : Not available.

<u>Specific target organ toxicity (single exposure)</u> Not available.

Specific target organ toxicity (repeated exposure) Not available.

Aspiration hazard

Not available.

Information on likely routes : Not available. of exposure

Potential acute health effects		
Eye contact	:	May cause eye irritation. Liquid can cause burns similar to frostbite.
Inhalation	:	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. At very high concentrations, can displace the normal air and cause suffocation from lack of oxygen.
Skin contact	:	May cause skin irritation. Dermal contact with rapidly evaporating liquid could result in freezing of the tissues or frostbite.
Ingestion	:	Ingestion of liquid can cause burns similar to frostbite.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: irritation redness frostbite
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing drowsiness/fatigue dizziness/vertigo headache
Skin contact	: Adverse symptoms may include the following: frostbite cracking dryness pain or irritation redness
Ingestion	: Adverse symptoms may include the following: frostbite Irritating to mouth, throat and stomach.
Delayed and immediate ef	fects as well as chronic effects from short and long-term exposure
Short term exposure	
Potential immediate	: Not available.

effects
Potential delayed effects : Not available.
Long term exposure

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SECTION 11: Toxicological information

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Product/ingredient name	Result	Species	Dose	Exposure
HFO-1234ZE	Chronic NOEL Inhalation Gas.	Rat	5000 ppm	13 weeks
Conclusion/Summary	: Not available.			
General	: No known significant effect	ts or critical haza	ards.	
Carcinogenicity	: No known significant effect	ts or critical haza	ards.	
Mutagenicity	: No known significant effect	ts or critical haza	ards.	
Teratogenicity	: No known significant effect	ts or critical haza	ards.	
Developmental effects	: No known significant effect	ts or critical haza	ards.	
Fertility effects	: No known significant effect	ts or critical haza	ards.	

Other information

: Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
HFO-1234ZE	EC50 >160 mg/l NOEC >170 mg/l NOEC >117 mg/l	Daphnia Algae Fish	48 hours 72 hours 96 hours
Conclusion/Summary	: Not available.		

12.2 Persistence and degradability

Conclusion/Summary : Not readily biodegradable.

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
HFO-1234ZE	1.6	-	low

12.4 Mobility in soil

Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

12.5 Results of PBT and vPv	/B assessment
PBT	: No.
	P: Not available. B: Not available. T: No.
vPvB	: Not available.
	vP: Not available. vB: Not available.
12.6 Other adverse effects	: No known significant effects or critical hazards.

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SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product	
Methods of disposal	: The generation of waste should be avoided or minimised 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.
Hazardous waste	: The classification of the product may meet the criteria for a hazardous waste.
Packaging	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	: 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

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	1950	1950	1950	1078
14.2 UN proper shipping name	AEROSOLS (Non-flammable)	AEROSOLS (Non-flammable)	AEROSOLS (Non-flammable)	AEROSOLS (Non-flammable)
14.3 Transport hazard class(es)	2	2	2.2	2.2
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.
Additional information	Tunnel code (E)	-	-	Cargo Aircraft Only Quantity limitation: 150 kg Limited Quantities - Passenger Aircraft Quantity limitation: 75 kg

user

14.6 Special precautions for : 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.

14.7 Transport in bulk : Not available. according to Annex II of Marpol and the IBC Code

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SECTION 15: Regulatory information

	nmental regulations/legislation specific for the substance or mixture
EU Regulation (EC) No. 1907/	
Annex XIV - List of substand Annex XIV	ces subject to authorisation
None of the components are	listed
Substances of very high co	
None of the components are	
	: Not applicable.
on the manufacture,	the second s
placing on the market and use of certain	
dangerous substances,	
mixtures and articles	
Other EU regulations	
Europe inventory	: At least one component is not listed in EINECS but all such components are listed in ELINCS.
	Please contact your supplier for information on the inventory status of this material.
Ozone depleting substances Not listed.	<u>s (1005/2009/EU)</u>
Prior Informed Consent (PIC	<u>;) (649/2012/EU)</u>
Not listed.	
Aerosol dispensers	:
	3
	5
Seveso Directive	
This product is not controlled	under the Seveso Directive.
International regulations	
Chemical Weapon Conventio	n List Schedules I, II & III Chemicals
Not listed.	
Montreal Protocol (Annexes	A. B. C. E)
Not listed.	
Stockholm Convention on Pe	rejetant Organic Pollutante
Not listed.	insistent organic Polititants
Rotterdam Convention on Pr	ior Informed Consent (PIC)
Not listed.	
UNECE Aarhus Protocol on P	POPs and Heavy Metals
Not listed.	
International lists	
National inventory	
Australia	: Not determined.
Canada	: All components are listed or exempted.
China	: Not determined.
Japan	: Japan inventory (ENCS): Not determined.
Meleveie	Japan inventory (ISHL): All components are listed or exempted.
	: Not determined. : Not determined.
NEW LEAIDIU	

SECTION 15: Regulatory information

Dhilippingo	: Not determined.
Philippines	i Not determined.
Republic of Korea	: All components are listed or exempted.
Taiwan	: All components are listed or exempted.
Turkey	: Not determined.
United States	: All components are listed or exempted.
15.2 Chemical safety assessment	: This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	 ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EUH statement = CLP-specific Hazard statement
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Aerosol 3, H229	On basis of test data

Full text of abbreviated H statements

H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
Full text of classifications [CLP/GHS]	
Aerosol 3, H229	AEROSOLS - Category 3
Press. Gas Comp. Gas, H280	GASES UNDER PRESSURE - Compressed gas
Date of printing : 5/15/2017	

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Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed 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.