

P336 Storage

Disposal

2.3. Other hazards

P410 + P412

Supplemental label information

Version #: 1.0

SAFETY DATA SHEET Revision date: 14-March-2022 14-March-2022

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

Issue date:

SECTION 1: Identification	of the substance/mixture and of the company/undertaking
1.1. Product identifier	
Trade name or designation of the mixture	DUST OFF 67
Registration number	-
Synonyms	None.
Product code	BDS002485AE
1.2. Relevant identified uses of	the substance or mixture and uses advised against
Identified uses	Cleaners - Precision
Uses advised against	None known.
1.3. Details of the supplier of th	e safety data sheet
Company name	CRC Industries Europe bv
Address	Touwslagerstraat 1
	9240 Zele
	Belgium
Telephone	+32(0)52/45.60.11
Fax	+32(0)52/45.00.34
E-mail	hse@crcind.com
Website	www.crcind.com
1.4. Emergency telephone number	Tel.: +32(0)52/45.60.11 (office hours: 9-17h CET)
General in EU	112 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.) Atification ance or mixture b
SECTION 2: Hazards identification	
2.1. Classification of the substance or mixture	
SECTION 2: Hazards identification Lieferant Performent + Comparison 2.1. Classification of the substance or mixture Lieferant Performent - Comparison The mixture has been assessed and/or tested for its physical, health and environmental hazards and the additioning classification according to Regulation (EC) No 1272/2008 as amended Schoemperlenstr. Classification according to Regulation (EC) No 1272/2008 as amended sicherheit@carlroth.de 2.2. Label elements sicherheit@carlroth.de	
Classification according to Reg	julation (EC) No 1272/2008 as amended
2.2. Label elements	50.
	(EC) No. 1272/2008 as amended
Hazard pictograms	None.
Signal word	Warning
Hazard statements	
H229	Pressurized container: May burst if heated.
Precautionary statements	
Prevention	
P102	Keep out of reach of children.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P251	Do not pierce or burn, even after use.
Response	

Thaw frosted parts with lukewarm water. Do not rub affected area.

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Regulation (EC) No 648/2004 on detergents: halogenated hydrocarbons > 30%

Avoid contact with skin and eyes, in case of contact with liquid product frostbite symptoms may

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation

(EC) No 1907/2006, Annex XIII.

Not assigned.

occur.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

J.Z. WIXLUIES	
General information	
Chemical name	% CAS-No. / EC No. REACH Registration No. Index No. Notes
(E)-1,3,3,3-tetrafluoroprop-1-e	ene 75 - 100 29118-24-9 01-0000019758-54 - 471-480-0
Classif	fication: Press. Gas;H280
ist of abbreviations and symbo	ols that may be used above
M: M-factor PBT: persistent, bioaccumulat vPvB: very persistent and ver	
SECTION 4: First aid meas	sures
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
I.1. Description of first aid meas	sures
Inhalation	If symptoms develop move victim to fresh air. Get medical attention if symptoms persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
4.2. Most important symptoms and effects, both acute and delayed	Exposure may cause temporary irritation, redness, or discomfort.
I.3. Indication of any mmediate medical attention and special treatment needed	Treat symptomatically.
SECTION 5: Firefighting m	neasures
General fire hazards	Not available.
5.1. Extinguishing media Suitable extinguishing media	Water. Alcohol resistant foam. Carbon dioxide (CO2). Dry sand.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
5.2. Special hazards arising from the substance or mixture	During fire, gases hazardous to health may be formed.
5.3. Advice for firefighters Special protective equipment for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Special fire fighting procedures	Containers should be cooled with water to prevent vapour pressure build up.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
SECTION 6: Accidental re	lease measures
For non-emergency	ective equipment and emergency procedures Wear appropriate personal protective equipment.
personnel For emergency responders	Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.
5.2. Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
6.3. Methods and material for containment and cleaning up	Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flare sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spille material. This product is miscible in water.
	For nomenal metastion, and position 0 of the CDC. For wests disposed, and position 12 of the CDC

SECTION 7: Handling and storage

7.1. Precautions for safe handling	Pressurised container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Ground and bond containers when transferring material. Do not re-use empty containers. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
7.2. Conditions for safe storage, including any incompatibilities	Contents under pressure. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Store away from incompatible materials (see Section 10 of the SDS). Storage class (TRGS 510): 2B (Aerosol dispensers and lighters)
7.3. Specific end use(s)	Not available.

SECTION 8: Exposure controls/personal protection

SECTION 8. Exposure con	ni ols/personal protection	
8.1. Control parameters		
Occupational exposure limits	No exposure limits noted for ingredient(s).	
Biological limit values	No biological exposure limits noted for the ingredient(s).	
Recommended monitoring procedures	Follow standard monitoring procedures.	
Derived no effect levels (DNELs)	Not available.	
Predicted no effect concentrations (PNECs)	Not available.	
8.2. Exposure controls		
Appropriate engineering controls	Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.	
Individual protection measures, such as personal protective equipment		
General information	Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.	
Eye/face protection	Wear safety glasses with side shields (or goggles). Use eye protection conforming to EN 166.	
Skin protection		
- Hand protection	For incidental contact with the product wear chemical-resistant gloves (standard EN 374). The use of disposable gloves is acceptable provided that they are changed immediately after a splash or spill. Viton gloves are recommended.	
- Other	Not available.	
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. Recommended respiratory protection: Compressed air.	
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.	
Hygiene measures	When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.	
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.	

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Form	Compressed liquefied gas.
Colour	Colourless.
Odour	Neutral.
Melting point/freezing point	Not available.
Boiling point or initial boiling point and boiling range	-19 °C (-2.2 °F)
Flammability (solid, gas)	Not available.

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Upper/lower flammability or explosive limits		
Explosive limit - lower (%)	No LEL was assigned at standard testing conditions(20°C). Exhibits flame limits at temperatures in excess of 28°C.	
Explosive limit – upper (%)	No UEL was assigned at standard testing conditions(20°C). Exhibits flame limits at temperatures in excess of 28°C.	
Flash point	None	
Auto-ignition temperature	288 - 293 °C (550.4 - 559.4 °F)	
Decomposition temperature	Not available.	
рН	Not applicable.	
Solubility(ies)		
Solubility (water)	Partly soluble in water	
Vapour pressure	420 kPa at 20°C	
Vapour density	Not available.	
Relative density	1.18 g/cm3 at 20°C	
Particle characteristics	Not available.	
9.2. Other information		
9.2.1. Information with regard to physical hazard classes	No relevant additional information available.	
9.2.2. Other safety characteristic	CS	
Aerosol spray enclosed spa	ice	
Deflagration density	> 300 g/cm ³	
Time equivalent	> 300 s/m³	
Aerosol spray ignition distance	< 15 cm	
Evaporation rate	Not applicable.	

Evaporation rate	Not applicable.
Explosive properties	Not explosive.
Heat of combustion	< 20 kJ/g
Oxidising properties	Not oxidising.
VOC	1180 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
10.4. Conditions to avoid	Avoid high temperatures. Avoid temperatures exceeding the decomposition temperature.
10.5. Incompatible materials	Strong oxidising agents.
10.6. Hazardous decomposition products	Carbon oxides. HF may be formed.

SECTION 11: Toxicological information

General information

Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure		
Inhalation	Prolonged inhalation may be harmful.	
Skin contact	Based on available data, the classification criteria are not met.	
Eye contact	Based on available data, the classification criteria are not met.	
Ingestion	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.	
Symptoms	Exposure may cause temporary irritation, redness, or discomfort.	
11.1. Information on toxicological effects		
Acute toxicity	Based on available data, the classification criteria are not met.	
Skin corrosion/irritation	Based on available data, the classification criteria are not met.	
Serious eye damage/eye irritation	Based on available data, the classification criteria are not met.	
Respiratory sensitisation	Based on available data, the classification criteria are not met.	
Skin sensitisation	Based on available data, the classification criteria are not met.	

Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
Specific target organ toxicity - single exposure	Based on available data, the classification criteria are not met.
Specific target organ toxicity - repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Not likely, due to the form of the product.
Mixture versus substance information	Not available.
11.2. Information on other hazards	

properties	The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Other information Not available.

SECTION 12: Ecological information

12.1. Toxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
12.2. Persistence and degradability	No data is available on the degradability of any ingredients in the mixture.
12.3. Bioaccumulative potential	No data available.
Partition coefficient n-octanol/water (log Kow)	Not available.
Bioconcentration factor (BCF)	Not available.
12.4. Mobility in soil	No data available.
12.5. Results of PBT and vPvB assessment	This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.
12.6. Endocrine disrupting properties	The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
12.7. Other adverse effects	The product contains volatile organic compounds which have a photochemical ozone creation potential.

SECTION 13: Disposal considerations

13.1. Waste treatment methods	
Residual waste	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.
EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal methods/information	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Dispose of contents/container in accordance with local/regional/national/international regulations.
Special precautions	Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR	
14.1. UN number	UN1950
14.2. UN proper shipping	AEROSOLS
name	
14.3. Transport hazard class	(es)
Class	2.2
Subsidiary risk	-
Label(s)	2.2
Hazard No. (ADR)	Not available.
Tunnel restriction code	E
14.4. Packing group	Not available.

14.3. Transport hazard class(es) ADR/RID - Classification 5A code. 14.5. Environmental hazards No. Read safety instructions, SDS and emergency procedures before handling. 14.6. Special precautions for user ΙΑΤΑ 14.1. UN number UN1950 **AEROSOLS** 14.2. UN proper shipping name 14.3. Transport hazard class(es) 2.2 Class Subsidiary risk Not available. 14.4. Packing group 14.5. Environmental hazards No. **ERG Code** 21 14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling. for user Other information Passenger and cargo Allowed with restrictions. aircraft Cargo aircraft only Allowed with restrictions. IMDG 14.1. UN number UN1950 **AEROSOLS** 14.2. UN proper shipping name 14.3. Transport hazard class(es) 2.2 Class Subsidiary risk Not available. 14.4. Packing group 14.5. Environmental hazards Marine pollutant No. F-D, S-U EmS 14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling. for user 14.7. Maritime transport in bulk Not applicable. according to IMO instruments

ADR; IATA; IMDG



SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended Not listed.

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended Not listed.

• • • •	012 concerning the export and import of dangerous chemicals, Annex V as amended
• • • •	2006 Annex II Pollutant Release and Transfer Registry, as amended
Not listed. Regulation (EC) No. 1907 Not listed.	2006, REACH Article 59(10) Candidate List as currently published by ECHA
Authorisations	
Regulation (EC) No. 1907 Not listed.	2006, REACH Annex XIV Substances subject to authorization, as amended
Restrictions on use	
Regulation (EC) No. 1907 Not listed.	2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended
Directive 2004/37/EC: on t work, as amended. Not listed.	the protection of workers from the risks related to exposure to carcinogens and mutagens at
Other EU regulations	
-	najor accident hazards involving dangerous substances, as amended
Other regulations	The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.
National regulations	This safety data sheet conforms to the following laws, regulations and standards:
15.2 Chemical safety	Act on the management of packaging and packaging waste of June 13, 2013 Regulation of the Minister of Health of June 11, 2012 on the categories of dangerous substances and dangerous preparations whose packaging should be fitted with child-resistant closures and a tactile warning of danger REGULATION OF THE MINISTER OF HEALTH of February 2, 2011 on tests and measurements of factors harmful to health in working environments Regulation of Ministry of Labor and Social Policy of June 6, 2014. On the matter of maximum permissible concentrations and intensities of harmful factors in the work environment (Journal of Laws 2014, item. 817) Chemical Safety at Workplace Ordinance Joint Decree No. 25/2000 (Annex 2): Permissible limit values of biological exposure (effect) indices Decree No. 25/2000. (IX. 30.) EüM-SzCsM of the Minister of Health and the Minister of Social and Family Affairs on chemical safety at work Act No. 93 of 1993 on Labour Safety (1993.évi XCIII.), as amended Government Decree No. 220 of 2004 (VII. 21.) providing rules on the protection of surface waters quality Government Decree No. 98/2001 (VI. 15.), on the conditions of the activities related to hazardous waste, and Ministry of Environmental Affairs Decree No. 16/2001 (VII. 18.), on the register of waste s Public Act No. XXV of 2000 on Chemical Safety, and Application Decree No. 44/2000. (XII.27.) EüM [of the Ministry of Health] Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.
15.2. Chemical safety assessment	No Chemical Safety Assessment has been carried out.
SECTION 16: Other info	rmation
List of abbreviations	
	 ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways. ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road. ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road. ATE: Acute Toxicity Estimate according to REGULATION (EC) No 1272/2008 (CLP). CAS: Chemical Abstract Service. Ceiling: Short Term Exposure Limit Ceiling value. CEN: European Committee for Standardization. CLP: Classification, Labeling and Packaging REGULATION (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures.

labeling and packaging of substances and mixtures. GWP: Global Warming Potential.

IATA: International Air Transport Association.

IBC: Intermediate Bulk Container.

IMDG: International Maritime Dangerous Goods.

MAK: Threshold limit values Germany (Maximale Arbeitsplatzkonzentration - DFG). MARPOL: International Convention for the Prevention of Pollution from Ships.

PBT: Persistent, bioaccumulative, toxic.

REACH: Registration, Evaluation and Authorization of Chemicals (REGULATION (EC) No 1907/2006 concerning Registration, Evaluation Authorization and Restriction of Chemicals).
RID: Regulations concerning the international carriage of dangerous goods by rail (Règlement International concernant le transport de marchandises dangereuses par chemin de fer).
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.
STEL: Short term exposure limit.
TLV: Threshold Limit Value.
TWA: Time Weighted Average.
VOC: Volatile organic compounds.
vPvB: Very persistent and very bioaccumulative.
STEL: Short-term Exposure Limit.
Not available.
The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.
H280 Contains gas under pressure; may explode if heated.

Full text of any H-statements not written out in full under Sections 2 to 15

Information on evaluation

method leading to the classification of mixture

Revision information

Training information

Disclaimer

References

None.

Follow training instructions when handling this material.

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