

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation

DUST CLEAN PB

of the mixture

SynonymsNone.Product codeBDS002511Issue date15-April-2020

Version number 0°

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 the safety data sheet

Company name CRC Industries Europe byba

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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

ne

Tel.: +32(0)52/45.60.11 (office hours)

number

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Physical hazards

Aerosols Category 1 H222 - Extremely flammable

aerosol.

H229 - Pressurized container: May

burst if heated.

Health hazards May cause discomfort if swallowed. Prolonged inhalation may be harmful. However, ingestion is

not likely to be a primary route of occupational exposure.

Physical and chemical hazards Extremely flammable aerosol. The product is stable and non-reactive under normal conditions of

use, storage and transport.

Hazard summary Aerosol CONTENTS UNDER PRESSURE.

Pressurised container may explode when exposed to heat or flame.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Hazard pictograms

Signal word Danger

Hazard statements

H222 Extremely flammable aerosol.

H229 Pressurized container: May burst if heated.

Precautionary statements

Prevention

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Do not spray on an open flame or other ignition source. P211

Do not pierce or burn, even after use. P251

Not available Response

Storage

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. P410 + P412

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations. P501

Supplemental label information Regulation (EC) No 648/2004 on detergents: aliphatic hydrocarbons > 30 %

None of the ingredients of this mixture does meet vPvB / PBT criteria of Regulation (EC) No 2.3. Other hazards

1907/2006. Annex XIII.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name		%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Hydrocarbons, C3-4-rich, distillates	petroleum	75 - 100	68512-91-4 270-990-9	01-2119485926-20	649-083-00-0	
Classification:	Flam. Gas 1;	H220, Pre	ss. Gas;H280			K
Cyclopentane		5 - 10	287-92-3 206-016-6	01-2119463053-47	601-030-00-2	
Classification:	Flam. Liq. 2;H225, Asp. Tox. 1;H304, STOT SE 3;H336, Aquatic Chronic 3;H412					

List of abbreviations and symbols that may be used above

M: M-factor

PBT: persistent, bioaccumulative and toxic substance. vPvB: very persistent and very bioaccumulative substance.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Note K: not classified as carcinogen, less than 0.1% w/w 1,3-butadiene (Einecs-nr. 203-450-8).

Composition comments The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

4.1. Description of first aid measures

If symptoms develop move victim to fresh air. Get medical attention if symptoms persist. Inhalation Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Eve contact Rinse with water. Get medical attention if irritation develops and persists. Ingestion In the unlikely event of swallowing contact a physician or poison control centre.

4.2. Most important symptoms and effects, both acute and delayed

Exposure may cause temporary irritation, redness, or discomfort. Contact with liquefied gas might

cause frostbites, in some cases with tissue damage.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

General fire hazards Extremely flammable aerosol.

5.1. Extinguishing media

Suitable extinguishing Foam. Powder. Carbon dioxide (CO2).

media

media

Unsuitable extinguishing Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture Contents under pressure. Pressurised container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with

face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Special fire fighting procedures

Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapour pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Use standard firefighting procedures and consider the hazards of other involved materials. In the event of fire and/or explosion do not breathe fumes.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

For emergency responders

Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the

SDS.

6.2. 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. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

6.4. Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

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. All equipment used when handling the product must be grounded. 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

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store away from incompatible materials (see Section 10 of the SDS).

7.3. Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits
No exposure limits noted for ingredient(s).

Biological limit valuesNo biological exposure limits noted for the ingredient(s).

Not available.

Recommended monitoring

procedures

Follow standard monitoring procedures.

Derived no effect levels (DNELs)

Components	Value	Assessment factor	Notes
Cyclopentane (CAS 287-92-3)			
Long-term, Systemic, Dermal	214 mg/kg bw/day	5	Repeated dose toxicity
Long-term, Systemic, Inhalation	643 mg/m3	5	Repeated dose toxicity
Long-term, Systemic, Oral	214 mg/kg bw/day	5	Repeated dose toxicity
<u>Workers</u>			
Components	Value	Assessment factor	Notes
Cyclopentane (CAS 287-92-3)			
Long-term, Systemic, Dermal	432 mg/kg bw/day	3	Repeated dose toxicity
Long-term, Systemic, Inhalation	3000 mg/m3	3	Repeated dose toxicity

Predicted no effect concentrations (PNECs)

Not available.

8.2. Exposure controls

controls

Appropriate engineering

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 Use personal protective equipment as requir

Use personal protective equipment as required. 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).

Skin protection

Cold insulating gloves. - Hand protection

Not available. - Other

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment. Wear air supplied

respiratory protection.

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

Appearance

Liquid. **Physical state Form** Aerosol Colour Colourless. Odourless. Odour Not available. **Odour threshold** Not applicable. pН -182 °C (-295.6 °F) Melting point/freezing point Initial boiling point and boiling -24 °C (-11.2 °F)

range

< 0 °C (< 32 °F) Closed cup Flash point

Not applicable. **Evaporation rate** Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Explosive limit - lower (%) 1.5 Explosive limit - lower (%) 1.5 %

temperature

Explosive limit - upper 9.5

Explosive limit - upper (%) 9.5 %

temperature

300 - 800 kPa Vapour pressure 20 °C (68 °F) Vapour pressure temp. Vapour density Not available. Relative density 0.54 kg/m3

Solubility(ies)

Insoluble in water Solubility (water) Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature > 370 °C (> 698 °F)

Not available. **Decomposition temperature Viscosity** Not available. Not explosive. **Explosive properties Oxidising properties** Not oxidising.

9.2. Other information

Chemical family Cleaner

SECTION 10: Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. 10.1. Reactivity

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.

10.5. Incompatible materials

Strong oxidising agents.

10.6. Hazardous

Carbon oxides.

decomposition products

SECTION 11: Toxicological information

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

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contact Contact with liquefied gas might cause frostbites, in some cases with tissue damage. Contact with liquefied gas might cause frostbites, in some cases with tissue damage. Eye contact

Ingestion May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of

occupational exposure.

Exposure may cause temporary irritation, redness, or discomfort. **Symptoms**

11.1. Information on toxicological effects

Based on available data, the classification criteria are not met. **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

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 -Based on available data, the classification criteria are not met.

single exposure

Specific target organ toxicity -

repeated exposure

Based on available data, the classification criteria are not met.

Based on available data, the classification criteria are not met. **Aspiration hazard**

Not available. Other information

SECTION 12: Ecological information

12.1. Toxicity Based on available data, the classification criteria are not met for hazardous to the aquatic

environment.

Components **Species Test Results**

Cyclopentane (CAS 287-92-3)

Aquatic Acute

LC50 Fish Fish 29.3 mg/l, 96 hr

12.2. Persistence and degradability

No data is available on the degradability of any ingredients in the mixture.

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

3 Cyclopentane

Not available. **Bioconcentration factor (BCF)** No data available. 12.4. Mobility in soil

12.5. Results of PBT and vPvB

assessment

This mixture does not meet vPvB / PBT criteria of Regulation (EC) No 1907/2006, Annex XIII.

12.6. Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

Substance Global Warming Potential per (Annex IV), Regulation 517/2014/EU on fluorinated greenhouse gases, as amended

Cyclopentane (CAS 287-92-3)

5

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual wasteDispose 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 codeThe 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 precautionsDispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. UN number UN1950

14.2. UN proper shipping AEROSOLS, flammable

name

14.3. Transport hazard class(es)

Class 2. Subsidiary risk -

Hazard No. (ADR) Not available.

Tunnel restriction code D **ADR/RID - Classification** 5F

code:

14.4. Packing group Not available.

14.5. Environmental hazards No.

14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

for user

IATA

14.1. UN number UN1950

14.2. UN proper shipping Aerosols, flammable

name

14.3. Transport hazard class(es)

Class 2.1 Subsidiary risk -

14.4. Packing group Not available.

14.5. Environmental hazards No. **ERG Code** 10L

14.6. Special precautions

for user

Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

Allowed with restrictions.

aircraft

Cargo aircraft only Allowed with restrictions.

IMDG

14.1. UN number UN1950 **14.2. UN proper shipping** AEROSOLS

name

14.3. Transport hazard class(es)
Class 2.1

Subsidiary risk
14.4. Packing group Not available.

14.5. Environmental hazards

Marine pollutant No. EmS F-D, S-U

14.6. Special precautions

for user

Read safety instructions, SDS and emergency procedures before handling.

14.7. Transport in bulk Not established.

according to Annex II of MARPOL 73/78 and the IBC

Code

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 (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

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.

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

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended Cyclopentane (CAS 287-92-3)

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 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 information

List of abbreviations

STEL: Short-Term Exposure Limit.
TWA: Time Weighted Average Value.

Ceiling: Short Term Exposure Limit Ceiling value. ICAO: International Civil Aviation Organization.

EINECS: European Inventory of Existing Commercial Chemical Substances.

RID: Regulations concerning the international carriage of dangerous goods by rail (Règlement International concernant le transport de marchandises dangereuses par chemin de fer).

MAK: Threshold limit values Germany (Maximale Arbeitsplatzkonzentration - DFG).

ATE: Acute Toxicity Estimate according to REGULATION (EC) No 1272/2008 (CLP).

ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road.

IATA: International Air Transport Association.

References

Information on evaluation method leading to the classification of mixture

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

Not available.

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

Revision information

Training information

Disclaimer

Follow training instructions when handling this material.

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