

# **Manufacturer:**

Chemtronics

# **Product Name:**

ITW Chemtronics® Compressed Air Duster – 10 oz. Can

#### **Manufacturer Part Number:**

ES1017

Click here for more details on the ITW Chemtronics® Compressed Air Duster – 10 oz. Can

# SAFETY DATA SHEET

Chemtronics

Duster

#### Section 1. Identification

GHS product identifier : ES1017 Product code **Chemical name** : Duster

: ES1017 (22346) Other means of

Processing aid Dusting agent identification Industrial/Professional use

Date of commencement of manufacture or import December 12, 2022 (22346)

**Product type** : Aerosol.

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

**Identified uses** 

Dusting agent

#### Uses advised against

Not applicable.

Supplier's details : Chemtronics

8125 Cobb Center Drive Kennesaw, GA 30152

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

Emergency telephone number (with hours of operation)

: Chemtrec - 1-800-424-9300 or collect 703-527-3887

#### Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Classification of the : GASES UNDER PRESSURE - Compressed gas substance or mixture

**GHS label elements** 

**Hazard pictograms** 

Signal word

**Hazard statements** 

: Contains gas under pressure; may explode if heated.

**Precautionary statements** 

Prevention : Not applicable Response : Not applicable

: Protect from sunlight. Store in a well-ventilated place. Storage

Disposal : Not applicable. Hazards not otherwise : None known.

classified

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Version :1

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#### Section 3. Composition/information on ingredients

Substance/mixture

: Mixture : Duster

Chemical name

: ES1017 (22346)

Other means of

Processing aid Dusting agent

identification

Industrial/Professional use

Date of commencement of manufacture or import December 12, 2022 (22346)

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

#### Section 4. First aid measures

#### Description of necessary 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. Get medical attention if irritation

occure

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Skin contact

: Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Get medical attention if symptoms occur.

Ingestion

: Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless

directed to do so by medical personnel.

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

**Eye contact**: Contact with rapidly expanding gas may cause burns or frostbite.

Inhalation

: At very high concentrations, can displace the normal air and cause suffocation from lack

of oxygen.

Skin contact : Contact with rapidly expanding gas may cause burns or frostbite

Ingestion : Ingestion of liquid can cause burns similar to frostbite

# Over-exposure signs/symptoms

Eye contact

: Adverse symptoms may include the following:

irritation redness frostbite

Inhalation

: Adverse symptoms may include the following:

respiratory tract irritation

coughing

Skin contact

: Adverse symptoms may include the following:

irritation redness frostbite

Ingestion

Adverse symptoms may include the following:

frostbite

Irritating to mouth, throat and stomach. Ingestion Seek medical attention.

#### Indication of immediate medical attention and special treatment needed, if necessary

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.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

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#### Section 4. First aid measures

See toxicological information (Section 11)

#### Section 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media

: None known.

Specific hazards arising from the chemical

Hazardous thermal decomposition products

Bursting aerosol containers may be propelled from a fire at high speed.

Decomposition products may include the following materials:

: In a fire or if heated, a pressure increase will occur and the container may burst.

carbon dioxide carbon monoxide halogenated compounds carbonyl halides

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. Use water spray to keep fire-exposed containers cool.

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.

# Section 6. Accidental release measures

# Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized 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 spilled material. Put on appropriate personal protective equipment.

For emergency responders :

: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel".

**Environmental precautions** 

: Avoid dispersal of spilled 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).

#### Methods and materials for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. 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. Approach 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 (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

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# Section 7. Handling and storage

#### Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8). Pressurized container: protect from sunlight and do not expose to temperatures 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 vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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.

# Conditions for safe storage, : including any incompatibilities

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. Protect from sunlight. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

# Section 8. Exposure controls/personal protection

#### Control parameters

Occupational exposure limits

None

#### **Biological exposure indices**

No exposure indices known

# Appropriate engineering controls

: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor 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.

# 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.

#### Individual protection measures

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 sideshields

#### **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.

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#### Section 8. Exposure controls/personal protection

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

# Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

**Appearance** 

Flash point

**Physical state** : Gas. [Aerosol.] Color : Colorless. Odor : Odorless. . Not available Odor threshold рΗ : Not applicable. Melting point/freezing point : Not applicable. **Boiling point, initial boiling** : -26°C (-14.8°F) point, and boiling range

: [Product does not sustain combustion.]

**Flammability** : Not available. Lower and upper explosion : Not available. limit/flammability limit

Vapor pressure : Not available. Relative vapor density : Not available. Relative density : Not applicable. : 1.23 g/cm<sup>3</sup> Density Solubility in water : Not available. Partition coefficient: n-: Not applicable. octanol/water Auto-ignition temperature : Not available. Decomposition temperature : Not available.

Heat of combustion Viscosity Particle characteristics

: 5.629 kJ/g : Not applicable.

Median particle size Aerosol product

: Not applicable.

Type of aerosol Ignition distance Enclosed space ignition - : Spray : 0 cm

Time equivalent

: 401 s/m<sup>3</sup>

**Enclosed space ignition -**

: 563 g/m<sup>3</sup>

**Deflagration density** 

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#### Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous

eactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

Incompatible materials : No specific data

Hazardous decomposition : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# Section 11. Toxicological information

#### Information on toxicological effects

**Acute toxicity** 

Not available.

#### Irritation/Corrosion

Not available.

#### Sensitization

Not available.

#### **Mutagenicity**

Not available.

#### Carcinogenicity

Not available.

#### Reproductive toxicity

Not available.

#### **Teratogenicity**

Not available.

#### Specific target organ toxicity (single exposure)

Not available

# Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.

Information on the likely : Not available

routes of exposure

# Potential acute health effects

**Eye contact**: Contact with rapidly expanding gas may cause burns or frostbite.

Inhalation :

: At very high concentrations, can displace the normal air and cause suffocation from lack

of oxygen.

Skin contact : Contact with rapidly expanding gas may cause burns or frostbite

Ingestion : Ingestion of liquid can cause burns similar to frostbite.

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# Section 11. Toxicological information

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

Skin contact Adverse symptoms may include the following:

irritation redness frostbite

Ingestion : Adverse symptoms may include the following:

frostbite

Irritating to mouth, throat and stomach. Ingestion Seek medical attention.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

**Potential immediate** 

Potential delayed effects

: Not available.

effects

: Not available

Long term exposure **Potential immediate** 

: Not available.

effects

Potential delayed effects : Not available

#### Potential chronic health effects

Not available.

General : No known significant effects or critical hazards. Carcinogenicity : No known significant effects or critical hazards. Mutagenicity : No known significant effects or critical hazards. Reproductive toxicity : No known significant effects or critical hazards.

#### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

_		(mg/kg)	(3)	(vapors)	Inhalation (dusts and mists) (mg/ I)
1,1,1,2-Tetrafluoroethane	N/A	N/A	N/A	1500	N/A

#### Section 12. Ecological information

Toxicity

Not available.

#### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

Not available.

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#### Section 12. Ecological information

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available

Other adverse effects

: No known significant effects or critical hazards.

#### Section 13. Disposal considerations

**Disposal methods** 

The generation of waste should be avoided or minimized 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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

	DOT Classification	TDG Classification	Mexico Classification	IMDG	IATA
UN number	UN1078	Packaging Not approved	UN1950	UN1950	UN1078
UN proper shipping name	Refrigerant gas, n. o.s.	Packaging Not approved	Aerosols, non- flammable	Aerosols, non- flammable	Regfrigerant gases, n.o.s.
Transport hazard class(es)	2.2	1	2.2	2.2	2.2
Packing group	-	-	-	-	-
Environmental hazards	No.	-	No.	No.	No.

**Additional information** 

DOT Classification : <u>Special provisions</u> DOT SP 15146

TDG Classification : Packaging Not approved

Mexico Classification : Special provisions DOT SP 15146

Cauntity limitation Cargo Aircraft Only: 150 kg.
 Special provisions DOT SP 15146

Special precautions for user :

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.

Transport in bulk according

to IMO instruments

Proper shipping name

: UN1950 AEROSOLS, non-flammable

Limited quantity 1000 ml

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#### Section 15. Regulatory information

U.S. Federal regulations : TSCA 8(a) CDR Exempt/Partial exemption: Not determined

Clean Air Act (CAA) 112 regulated flammable substances: 1,1-difluoroethane

Clean Air Act Section 112 : Not list

(b) Hazardous Air Pollutants (HAPs)

Clean Air Act Section 602 Class I Substances

: Not listed

Clean Air Act Section 602 Class II Substances

: Not listed

DEA List I Chemicals (Precursor Chemicals)

: Not listed

DEA List II Chemicals (Essential Chemicals)

: Not listed

SARA 302/304

#### Composition/information on ingredients

No products were found.

SARA 304 RQ

: Not applicable.

SARA 311/312

Classification : GASES UNDER PRESSURE - Compressed gas

Composition/information on ingredients

Name	%	Classification
norflurane 1,1-difluoroethane		GASES UNDER PRESSURE - Compressed gas GASES UNDER PRESSURE - Compressed gas

#### State regulations

Massachusetts : The following components are listed: DIFLUOROETHANE

New York : None of the components are listed.

New Jersey : The following components are listed: FLUORIDES; 1,1-DIFLUOROETHANE

Pennsylvania : None of the components are listed.

California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

#### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### **Montreal Protocol**

Ingredient name	Status
HFC-134a	Annex F, Group I
HFC-152a	Annex F, Group I

# Stockholm Convention on Persistent Organic Pollutants

Not listed.

# Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

**Inventory list** 

Australia : All components are listed or exempted.

Canada : All components are listed or exempted.

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Duster Section 15. Regulatory information

: All components are listed or exempted.

Eurasian Economic Union : Russian Federation inventory: Not determined

Japan

: Japan inventory (CSCL): All components are listed or exempted.

**New Zealand Philippines** 

Japan inventory (ISHL): Not determined. : All components are listed or exempted.

Republic of Korea **Taiwan** 

: All components are listed or exempted. : All components are listed or exempted. : All components are listed or exempted.

**Thailand** : Not determined.

Turkey : All components are listed or exempted. United States : All components are active or exempted. **Viet Nam** : All components are listed or exempted.

# Section 16. Other information

#### Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

#### National Fire Protection Association (U.S.A.)



#### Procedure used to derive the classification

Classification	Justification
GASES UNDER PRESSURE - Compressed gas	On basis of test data

**History** 

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Key to abbreviations

: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available

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#### Section 16. Other information

SGG = Segregation Group UN = United Nations

References : Not available.

▼ Indicates information that has changed from previously issued version.

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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