



SAFETY DATA SHEET (SDS)
Section 1. Identification

Product identifier	DUSTER 152A
Other means of identification	AE305A
Recommended use and restrictions on use	Dusting agent (gas)
Initial supplier identifier	Asalco Inc. 44, ch. Des Ursulines, Stanstead, Québec (Canada), J0B 3E0 Telephone 819-876-2211; Fax 819-876-5373; Internet www.asalco.com
Emergency telephone number/restriction on use	Canada – CANUTEC 24 hour number 613-996-6666

Section 2. Hazard identification

Classification of hazardous product (name of the category or subcategory of the hazard class)
Extremely flammable aerosol (Category 1) Gas under pressure (Compressed gas) Skin irritation (Category 3) Eye irritation (Category 2B)

Information elements (symbols, signal words, hazard statements and precautionary statements of the category/subcategory)

 	
Danger H222 Extremely flammable aerosol. H229 Pressurized container: may burst if heated. H280 Contains gas under pressure; may explode if heated. H316 Causes mild skin irritation. H320 Causes eye irritation. *** May displace oxygen and cause rapid suffocation. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211 Do not spray on an open flame or other ignition source. P251 Do not pierce or burn, even after use. P264 Wash hands/nails/face thoroughly after handling. P332 + P313 If skin irritation occurs: Get medical attention. P305+P351+P338 IF IN EYES, Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 If eye irritation persists: Get medical attention. P410+P412+P403 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well-ventilated area.	
Other hazards known	Simple Asphyxiants (Category 1) A gas that is a simple asphyxiant***

Section 3. Composition/information on ingredients

Chemical name (common name/synonyms)	CAS number or other	Concentration (%)
1,1-Difluoroethane (HFC-152A)	75-37-6	100

All ingredients are listed according to OSHA (29 CFR).

* Statement - This safety data sheet provides concentration range(s) instead of the actual concentration(s) considered trade secret(s).

Section 4. First-aid measures

Inhalation	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a doctor if you feel unwell.
Ingestion	IF SWALLOWED: Immediately call a doctor. DO NOT INDUCE VOMITING. NEVER give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Rinse mouth thoroughly with water. Have victim drink two glasses of water. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration.
Skin contact	IF ON SKIN, Wash with plenty of water for several minutes (5-10). If skin irritation occurs: Get medical attention.
Eye contact	IF IN EYES, Rinse cautiously with water for several minutes (5-10). Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
Most important symptoms and effects (acute or delayed)	Eye or skin irritation.
Indication of immediate medical attention/special treatment	In all cases, call a doctor. Do not forget this document.

Section 5. Fire-fighting measures

Specific hazards of the hazardous product (hazardous combustion products)	Carbon oxides and other irritant/toxic gases and fumes.
Suitable and unsuitable extinguishing media	In case of fire: Use carbon dioxide, chemical powder agent and appropriate foam to extinguish.
Special protective equipment and precautions for fire-fighters	During a fire, irritating/toxic smoke and fumes may be generated. Do not enter fire area without proper protection. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece. Shield personnel to protect from venting, rupturing or bursting cans. Move containers from fire area if it can be done without risk. Water spray may be useful in cooling equipment and cans exposed to heat and flame.

Section 6. Accidental release measures				
Personal precautions, protective equipment and emergency procedures				
Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate protective equipment (See Section 8).				
Methods and materials for containment and cleaning up				
Ventilate area of release. Stop the leak if it can be done safely. Contain and absorb any spilled liquid concentrate with inert absorbent material, then place material into a container for later disposal (see Section 13). Contaminated absorbent material may pose the same hazards as the spilled product. Notify the appropriate authorities as required.				
Section 7. Handling and storage				
Precautions for safe handling				
Wear protective gloves/ protective clothing/ eye protection/ face protection. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use.				
Before handling, it is very important that engineering controls are operating, and that protective equipment requirements and personal hygiene measures are being followed. People working with this chemical should be properly trained regarding its hazards and its safe use. Inspect containers for leaks before handling. Label containers appropriately. Ensure proper ventilation. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with eyes, skin and clothing. Keep away from heat, sparks and flame. Avoid generating high concentrations of dusts, vapours or mists. Keep away from incompatible materials (Section 10). Keep containers closed when not in use. Empty containers are always dangerous. Refer also to Section 8. Keep out of reach of children.				
Conditions for safe storage, including any incompatibilities				
Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up. Store away from incompatible materials (Section 10). Inspect all incoming containers to make sure they are properly labelled and not damaged. Storage area should be clearly identified, clear of obstruction and accessible only to trained personnel. Inspect periodically for damage or leaks.				
Section 8. Exposure controls/Personal protection				
Control parameters (biological limit values or exposure limit values and source of those values)				
Exposure limits: None				
Appropriate engineering controls				
Use under well-ventilated conditions. Local exhaust ventilation system is recommended to maintain concentrations of contaminants below exposure limits. Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.				
Individual protection measures/personal protective equipment				
Respiratory protection is required if the concentrations are higher than the exposure limits. Use a NIOSH approved respirators if the exposure limits are unknown. Chemically protective gloves (impervious), and other protective clothing to prevent prolonged or repeated skin contact, must be worn during all handling operations. Wear protective chemical splash goggles to prevent mists from entering the eyes. Wash hands/nails/face thoroughly after handling. Do not eat, drink or smoke when using this product. Practice good personal hygiene after using this material. Remove and wash contaminated work clothing before re-use.				
Section 9. Physical and chemical properties				
Appearance, physical state/colour	Liquid (aerosol)		Vapour pressure	11700 hPa @ 50°C
Odour	Odourless		Vapour density	Heavier than air
Odour threshold	Not available		Relative density	1.0 @ -25°C
pH	Not available		Solubility	Negligible
Melting/freezing point	-117°C		Partition coefficient - n-octanol/water	Not available
Initial boiling point/range	-25°C		Auto-ignition temperature	455°C
Flash point	-50°C (possible flame projection 15-100 cm & no flashback)		Decomposition temperature	Not available
Evaporation rate	Not available		Viscosity	Not available
Flammability (solids and gases)	Extremely flammable aerosol		VOC	Not available
Upper and lower flammability/explosive limits	3.9 % // 16.9 %		Other	None known
Section 10. Stability and reactivity				
Reactivity				
Does not react under the recommended storage and handling conditions prescribed.				
Chemical stability				
Stable under the recommended storage and handling conditions prescribed.				
Possibility of hazardous reactions				
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.				
Conditions to avoid (static discharge, shock or vibration)				
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. Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.				
Incompatible materials				
Oxidizing materials; etc.				
Hazardous decomposition products				
None known				

Section 11. Toxicological information	
Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact)	
Causes mild skin irritation. Causes eye irritation. May displace oxygen and cause rapid suffocation.	
Symptoms related to the physical, chemical and toxicological characteristics	
Skin irritation, redness, stinging, pain; Eye irritation, redness, tearing; Respiratory tract irritation, coughing, shortness of breath, dizziness, drowsiness, nausea and headaches.	
Delayed and immediate effects (chronic effects from short-term and long-term exposure)	
Skin Sensitization – No data available; Respiratory Sensitization – No data available; Germ Cell Mutagenicity – No data available; Carcinogenicity – No ingredient listed by IARC, ACGIH, NTP; Reproductive Toxicity – No data available; Specific Target Organ Toxicity — Single Exposure – No data available; Specific Target Organ Toxicity — Repeated Exposure – No data available; Aspiration Hazard – No data available; Health Hazards Not Otherwise Classified – No data available.	
Numerical measures of toxicity (ATE; LD₅₀ & LC₅₀)	
CAS 75-37-6 LC50 1500 g/m ³ 4H rat; ATE not available in this document.	
Section 12. Ecological information	
Ecotoxicity (aquatic and terrestrial information)	No data available for this product.
Persistence and degradability	No data available for this product.
Bioaccumulative potential	No data available for this product.
Mobility in soil	No data available for this product.
Other adverse effects	No data available
Section 13. Disposal considerations	
Information on safe handling for disposal/methods of disposal/contaminated packaging	
Dispose of contents/container into safe container in accordance with local, regional or national regulations.	
Section 14. Transport information	
UN number; Proper shipping name; Class(es); Packing group (PG) of the TDG Regulations	
UN1950; AEROSOLS; CLASS 2.1	
UN number; Proper shipping name; Class(es); Packing group (PG) of the IMDG (maritime)	
UN1950; AEROSOLS; CLASS 2.1	
UN number; Proper shipping name; Class(es); Packing group (PG) of the IATA (air)	
UN1950; AEROSOLS, FLAMMABLE; CLASS 2.1	
Special precautions (transport/conveyance)	May also be shipped as a LIMITED QUANTITY in accordance with TDG.
Environmental hazards (IMDG or other)	None
Bulk transport (usually more than 450 L in capacity)	Not possible
Section 15. Regulatory information	
Safety/health Canadian regulations specifics	Refer to Section 2 for the appropriate classification. This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR).
Environmental Canadian regulations specifics	Refer to Section 3 for ingredient(s) of the DSL
Safety/health/environmental outside regulations specifics	
United States OSHA information: This product is regulated according to OSHA (29 CFR).	
United States EPA (Environmental Protection Agency) information: 40 CFR Refer to the ingredients listed in Section 3 & Sections 12; 13 & 14.	
United States TCSA information: Refer to the ingredients listed in Section 3.	
National Fire Protection Association (NFPA):	
HEALTH: 1 FLAMMABILITY: 4 INSTABILITY: 1 SPECIAL HAZARDS: Refer to Section 2 & 3.	
HAZARD SCALE: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe	

Section 16. Other information	
Date of the latest revision of the safety data sheet	September 10, 2019 version 2 (NSS ENTREPRISE INC.)
Corrections	Sections 2; 3; 9; 11; 15;
References	Safety Data Sheets from manufacturer/supplier & from Canadian Centre for Occupational Health and Safety, CCOHS.
Abbreviations	
ACGIH	American Conference of Governmental Industrial Hygienists
ATE	Acute toxicity estimate
CAS	Chemical Abstract Service
DSL	Domestic Substance List
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods Code
LC	Lethal concentration
LD	Lethal Dosage
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program (U.S.A.)
OSHA	Occupational Safety and Health Administration (U.S.A.)
PEL	Permissible Exposure Limit
STEL	Short-term Exposure Limit
TDG	Transport of dangerous goods in Canada
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
WHMIS	Workplace Hazardous Materials Information System
<p>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.</p>	