# SAFETY DATA SHEET

## 1. Identification

**Product identifier** Super Degreaser™ Plus - 1 lb 1 oz

Other means of identification

No. 03109 (Item# 1003380) **Product Code** Recommended use General purpose degreaser

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufactured or sold by:

CRC Industries. Inc. Company name 885 Louis Dr. **Address** 

Warminster, PA 18974 US

Telephone

Website

215-674-4300 **General Information Technical Assistance** 800-521-3168 **Customer Service** 800-272-4620 24-Hour Emergency 800-424-9300 (US)

(CHEMTREC)

www.crcindustries.com

# 2. Hazard(s) identification

Physical hazards Gases under pressure Compressed gas

Health hazards Skin corrosion/irritation Category 2

> Serious eye damage/eye irritation Category 2B Carcinogenicity Category 2 Reproductive toxicity Category 1B

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Specific target organ toxicity, single exposure Category 3 narcotic effects

Specific target organ toxicity, repeated Category 2 (kidney, liver, nervous system)

exposure

**Environmental hazards** Hazardous to the aquatic environment, acute Category 3

hazard

Hazardous to the aquatic environment,

long-term hazard

**OSHA** defined hazards Not classified.

Label elements



Danger Signal word

**Hazard statement** Contains gas under pressure; may explode if heated. Causes skin irritation. Causes eye irritation.

May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of causing cancer. May damage fertility or the unborn child. May cause damage to organs (kidney, liver,

Category 3

nervous system) through prolonged or repeated exposure.

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#### **Precautionary statement**

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Do not puncture or incinerate container. Do not expose to heat or store at temperatures above 49 °C/120 °F. Use with adequate ventilation. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area. Do not breathe mist or vapor. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly

after handling.

Response IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical attention. Take off

contaminated clothing and wash before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. If exposed or concerned: Get

medical attention.

Keep cool. Store locked up. Protect from sunlight. Store in a well-ventilated place. Exposure to Storage

high temperature may cause can to burst.

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

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal

corrosive gases such as hydrogen bromide and hydrogen fluoride.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
decafluoropentane	HFC-43-10mee	138495-42-8	40 - 50
n-propyl bromide	1-bromopropane	106-94-5	40 - 50
carbon dioxide		124-38-9	3 - 5
butylene oxide		106-88-7	0.2 - 1

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON

CENTER or doctor/physician if you feel unwell.

Remove contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical Skin contact

advice/attention. Wash contaminated clothing before reuse.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Call a POISON CENTER or doctor/physician.

Most important symptoms/effects, acute and delayed

May cause drowsiness and dizziness. Narcosis. Headache. Nausea, vomiting. Behavioral changes. Decrease in motor functions. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain. Edema. Jaundice. Prolonged exposure may cause chronic effects.

Provide general supportive measures and treat symptomatically. Keep victim under observation.

Indication of immediate medical attention and special treatment needed

Symptoms may be delayed.

**General information** 

media

IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

## 5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing

Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

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

Specific hazards arising from the chemical

Pressurized container may rupture when exposed to heat or flame. During fire, gases hazardous to health may be formed. When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen bromide and hydrogen fluoride.

Special protective equipment and precautions for firefighters Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

In case of fire: Stop leak if safe to do so. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up.

Contents under pressure. Pressurized container may rupture when exposed to heat or flame.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Emergency personnel need self-contained breathing equipment. 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.

Methods and materials for containment and cleaning up Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Prevent product from entering drains. Stop the flow of material, if this is without risk. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Put material in suitable, covered, labeled containers.

**Environmental precautions** 

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

# 7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Pressurized 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. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices. For product usage instructions, see the product label.

Conditions for safe storage, including any incompatibilities Level 1 Aerosol.

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 in a well-ventilated place.

## 8. Exposure controls/personal protection

## Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

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uə.	USHAI	able Z-1	LIMILS	or Air Co	miamimanis i	29 GFR	1910.10001

Components	Type	Value	
carbon dioxide (CAS 124-38-9)	PEL	9000 mg/m3	
		5000 ppm	
US. ACGIH Threshold Limit Valu	ies		
Components	Туре	Value	
carbon dioxide (CAS 124-38-9)	STEL	30000 ppm	
	TWA	5000 ppm	
n-propyl bromide (CAS 106-94-5)	TWA	0.1 ppm	
US. NIOSH: Pocket Guide to Ch	emical Hazards		
Components	Туре	Value	
carbon dioxide (CAS 124-38-9)	STEL	54000 mg/m3	
		30000 ppm	

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**US. NIOSH: Pocket Guide to Chemical Hazards** 

 Components
 Type
 Value

 TWA
 9000 mg/m3

5000 ppm

US. Workplace Environmental Exposure Level (WEEL) Guides

ComponentsTypeValuebutylene oxide (CAS<br/>106-88-7)TWA5.9 mg/m3

2 ppm

Biological limit values No biological exposure limits noted for the ingredient(s).

**Exposure guidelines** 

US - California OELs: Skin designation

n-propyl bromide (CAS 106-94-5)

Can be absorbed through the skin.

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) 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. Eye wash facilities and emergency shower should be available when handling this product.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

Skin protection

**Hand protection** Wear protective gloves such as: Viton/butyl. Silver Shield®.

Other Wear appropriate chemical resistant clothing.

**Respiratory protection**Use a NIOSH-approved cartridge respirator with an organic vapor cartridge unless exposure is

below the TLV. Use a self-contained breathing apparatus in confined spaces and for emergencies.

Air monitoring is required to determine actual employee exposure levels.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Observe any medical surveillance requirements. When using, do not eat, drink or 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.

## 9. Physical and chemical properties

**Appearance** 

Physical state Liquid.
Form Aerosol.
Color Colorless.
Odor Solvent.
Odor threshold Not available.
pH Not available.

Melting point/freezing point -119.2 °F (-84 °C) estimated Initial boiling point and boiling 131 °F (55 °C) estimated

range

Flash point None.

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

3.8 % estimated

(%)

Flammability limit - upper

9.5 % estimated

(%)

Relative density

Vapor pressure 2793.9 hPa estimated

Vapor density > 1 (air = 1)

Solubility(ies)

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

(n-octanol/water)

Percent volatile

914 °F (490 °C) estimated **Auto-ignition temperature** 

**Decomposition temperature Viscosity** 

Not available.

Not available. 96 % estimated

## 10. Stability and reactivity

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

Material is stable under normal conditions. **Chemical stability** 

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Heat, flames and sparks. Contact with incompatible materials. When exposed to extreme heat or

hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen

bromide and hydrogen fluoride.

Incompatible materials

**Hazardous decomposition** products

Strong oxidizing agents. Strong acids. Strong bases. Hydrogen bromide. Hydrogen fluoride. Carbon oxides.

# 11. Toxicological information

### Information on likely routes of exposure

Inhalation May cause damage to organs through prolonged or repeated exposure by inhalation. May cause

drowsiness and dizziness. Headache. Nausea, vomiting. May cause irritation to the respiratory

system. Prolonged inhalation may be harmful.

Skin contact Causes skin irritation. Causes eye irritation. Eye contact

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

Symptoms related to the physical, chemical and toxicological characteristics

> Oral LD50

May cause drowsiness and dizziness. Narcosis. Headache. Nausea, vomiting. Behavioral changes. Decrease in motor functions. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain. Edema. Jaundice.

4260 mg/kg

#### Information on toxicological effects

**Acute toxicity** Not known.

Components	Species	Test Results
butylene oxide (CAS 106-88	3-7)	
<u>Acute</u>		
Dermal		
LD50	Rabbit	1760 mg/kg
Oral		
LD50	Rat	1180 mg/kg
n-propyl bromide (CAS 106-	-94-5)	
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Inhalation		
LC50	Rat	14370 ppm, 4 hours

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Rat

Skin corrosion/irritation Causes skin irritation.

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Serious eye damage/eye

irritation

Causes eye irritation.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

This product is not expected to cause skin sensitization. Skin sensitization

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

Carcinogenicity Suspected of causing cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

butylene oxide (CAS 106-88-7) 2B Possibly carcinogenic to humans. n-propyl bromide (CAS 106-94-5) 2B Possibly carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

US. National Toxicology Program (NTP) Report on Carcinogens

n-propyl bromide (CAS 106-94-5) Reasonably Anticipated to be a Human Carcinogen.

Reproductive toxicity May damage fertility or the unborn child.

Specific target organ toxicity -

single exposure

May cause respiratory irritation. May cause drowsiness and dizziness.

Specific target organ toxicity -

repeated exposure

May cause damage to organs (kidney, liver, nervous system) through prolonged or repeated

exposure.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** May cause damage to organs through prolonged or repeated exposure.

## 12. Ecological information

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

Persistence and degradability

**Hvdrolvsis** 

Half-life (Hydrolysis)

n-propyl bromide 26 days

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

butylene oxide 0.68 n-propyl bromide 2.1

**Bioconcentration factor (BCF)** 

n-propyl bromide 23

Mobility in soil No data available.

Other adverse effects The product contains volatile organic compounds which have a photochemical ozone creation

potential.

## 13. Disposal considerations

The dispensed liquid product is not a RCRA hazardous waste (See 40 CFR Part 261.20 - 261.33). **Disposal instructions** 

Empty container can be recycled. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container.

Dispose in accordance with all applicable regulations.

Hazardous waste code Not regulated.

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.

# 14. Transport information

DOT

**UN** number UN1950

**UN** proper shipping name Transport hazard class(es) Aerosols, non-flammable, Limited Quantity

Class 2.2 Subsidiary risk

Material name: Super Degreaser™ Plus - 1 lb 1 oz

Label(s) 2.2

Not applicable. Packing group

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

306 Packaging exceptions Packaging non bulk None Packaging bulk None

Other information

Passenger and cargo

Allowed with restrictions.

aircraft

Cargo aircraft only Allowed with restrictions.

IATA

UN1950 **UN** number

**UN** proper shipping name Transport hazard class(es)

Aerosols, non-flammable, Limited Quantity

Class 2.2 Subsidiary risk

Packing group Not applicable.

**ERG Code** 

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** 

UN1950 **UN** number

**UN** proper shipping name AEROSOLS, Limited Quantity

Transport hazard class(es)

Class 2.2 Subsidiary risk

Not applicable. Packing group

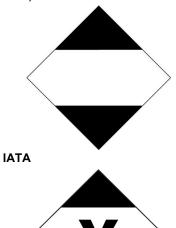
**Environmental hazards** 

Marine pollutant No.

**EmS** Not available.

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

#### **DOT: IMDG**



SDS US 7 / 10

## 15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

## TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

decafluoropentane (CAS 138495-42-8)

1.0 % One-Time Export Notification only.

#### SARA 304 Emergency release notification

Not regulated.

## OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

## US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

butylene oxide (CAS 106-88-7) n-propyl bromide (CAS 106-94-5)

#### **CERCLA Hazardous Substance List (40 CFR 302.4)**

butylene oxide (CAS 106-88-7)

#### **CERCLA Hazardous Substances: Reportable quantity**

butylene oxide (CAS 106-88-7)

100 LBS

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

#### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

butylene oxide (CAS 106-88-7)

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

(SDWA)

**Food and Drug** 

Not regulated.

Not regulated.

Administration (FDA)

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Classified hazard

categories

Gas under pressure Skin corrosion or irritation

Serious eye damage or eye irritation

Carcinogenicity

Reproductive toxicity

Specific target organ toxicity (single or repeated exposure)

#### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

## SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
butylene oxide	106-88-7	0.2 - 1
n-propyl bromide	106-94-5	40 - 50

#### **US state regulations**

#### US. New Jersey Worker and Community Right-to-Know Act

butylene oxide (CAS 106-88-7) carbon dioxide (CAS 124-38-9)

n-propyl bromide (CAS 106-94-5)

## **US. Massachusetts RTK - Substance List**

butylene oxide (CAS 106-88-7)

carbon dioxide (CAS 124-38-9)

n-propyl bromide (CAS 106-94-5)

#### US. Pennsylvania Worker and Community Right-to-Know Law

butylene oxide (CAS 106-88-7)

carbon dioxide (CAS 124-38-9)

n-propyl bromide (CAS 106-94-5)

#### **US. Rhode Island RTK**

butylene oxide (CAS 106-88-7)

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SDS US

#### California Proposition 65



WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

California Proposition 65 - CRT: Listed date/Carcinogenic substance

nitromethane (CAS 75-52-5) Listed: May 1, 1997 n-propyl bromide (CAS 106-94-5) Listed: August 5, 2016

California Proposition 65 - CRT: Listed date/Developmental toxin

n-propyl bromide (CAS 106-94-5) Listed: December 7, 2004

California Proposition 65 - CRT: Listed date/Female reproductive toxin

isopropyl bromide (CAS 75-26-3) Listed: May 31, 2005 n-propyl bromide (CAS 106-94-5) Listed: December 7, 2004

California Proposition 65 - CRT: Listed date/Male reproductive toxin

isopropyl bromide (CAS 75-26-3) Listed: May 31, 2005 n-propyl bromide (CAS 106-94-5) Listed: December 7, 2004

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3,

subd. (a))

butylene oxide (CAS 106-88-7) n-propyl bromide (CAS 106-94-5)

## Volatile organic compounds (VOC) regulations

**EPA** 

VOC content (40 CFR

51.100(s))

49.9 %

51.100(5*))* 

Consumer products (40 CFR 59, Subpt. C)

Not regulated

State

Consumer products This product is regulated as a General Purpose Degreaser (aerosol). This product is not compliant

to be sold for use in California, Colorado, Connecticut, Delaware, Maryland, New Hampshire, Rhode Island, and the following counties in Utah: Box Elder, Cache, Davis, Salt Lake, Tooele,

Utah, and Weber. This product is compliant in all other states.

**VOC content (CA)** 96 % **VOC content (OTC)** 49.9 %

#### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
_		

EuropeEuropean List of Notified Chemical Substances (ELINCS)NoJapanInventory of Existing and New Chemical Substances (ENCS)YesKoreaExisting Chemicals List (ECL)YesNew ZealandNew Zealand InventoryYesPhilippinesPhilippine Inventory of Chemicals and Chemical SubstancesYes

(PICCS)

Taiwan Taiwan Chemical Substance Inventory (TCSI)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

Issue date 12-02-2020
Prepared by Allison Yoon

Version # 01

Material name: Super Degreaser™ Plus - 1 lb 1 oz No. 03109 (Item# 1003380) Version #: 01 Issue date: 12-02-2020 Further information CRC # 947A/1002968

**Disclaimer** The information contained in this document applies to this specific material as supplied. It may not

be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC's knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this (M)SDS consult your supervisor, a health & safety

professional, or CRC Industries, Inc..

**Revision information** Product and Company Identification: Product and Company Identification

Physical & Chemical Properties: Multiple Properties

Physical and chemical properties: Color Toxicological information: Acute toxicity Toxicological information: Ingestion

Transport Information: Material Transportation Information

GHS: Classification

Material name: Super Degreaser™ Plus - 1 lb 1 oz