# SAFETY DATA SHEET

### 1. Identification

Product number 1000014162

Product identifier 15.5 OZ NAVY DEO DIS-1 LB 12PK

Revision date 03-31-2015

Company information NAVY BRAND MFG CO 3670 SCARLET OAK BLVD

ST. LOUIS, MO 63122-9985 United States

Emergency telephone US 1-866-836-8855 Emergency telephone outside 1-952-852-4646

US

Version # 05

Supersedes date 12-31-2014

Recommended use Disinfectant

Recommended restrictions None known.

## 2. Hazard(s) identification

Physical hazardsFlammable aerosolsCategory 1

Health hazards Not classified.
Environmental hazards Not classified.
OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Extremely flammable aerosol.

**Precautionary statement** 

Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open

flame or other ignition source. Pressurized container: Do not pierce or burn, even after use.

**Response** If exposed or concerned: Get medical advice/attention.

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

Disposal Not available.

Hazard(s) not otherwise None known.

classified (HNOC)

Supplemental information None.

## 3. Composition/information on ingredients

### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Ethyl Alcohol		64-17-5	40 - 60
1,1-Difluoroethane		75-37-6	20 - 40
o-Phenylphenol		90-43-7	0.1 - 1
Sodium Nitrite		7632-00-0	0.1 - 1
Other components below reportab	le levels		20 - 40

<sup>#:</sup> This substance has workplace exposure limit(s).

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<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 4. First-aid measures

Inhalation

If symptoms develop move victim to fresh air. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention if symptoms persist.

Skin contact

Wash off immediately with plenty of water for at least 15 minutes.

Eye contact Ingestion

Call a physician or Poison Control Center immediately.

Most important

Rinse mouth. Get medical attention if symptoms occur.

symptoms/effects, acute and

delaved

Headache. Irritation of eyes and mucous membranes. Irritation of nose and throat. Coughing. Skin

irritation.

Indication of immediate medical attention and special Provide general supportive measures and treat symptomatically.

treatment needed **General information** 

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

protect themselves.

# 5. Fire-fighting measures

Suitable extinguishing media

Powder, Alcohol resistant foam, Carbon dioxide (CO2).

Unsuitable extinguishing media

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

Specific hazards arising from

Contents under pressure. Pressurized container may explode when exposed to heat or flame. Fire may produce irritating, corrosive and/or toxic gases.

the chemical Special protective equipment

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

clothing will only provide limited protection.

and precautions for firefighters

Fire-fighting equipment/instructions Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor 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.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not

breathe fumes.

General fire hazards Extremely flammable aerosol.

## 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. Pay attention to flashback. Wear appropriate protective equipment and clothing during clean-up. Avoid skin contact and inhalation of vapors during disposal of spills. Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. 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.

Methods and materials for containment and cleaning up Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Keep out of low areas. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. If possible, turn leaking containers so that gas escapes rather than liquid. Isolate area until gas has dispersed. Prevent entry into waterways, sewer, basements or confined areas. Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS. This material and its container must be disposed of as hazardous waste.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

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## 7. Handling and storage

### Precautions for safe handling

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. All equipment used when handling the product must be grounded. Do not re-use empty containers. Avoid contact with skin. Avoid prolonged exposure. Use only in area provided with appropriate exhaust ventilation. Wear appropriate personal protective equipment. Wash thoroughly after handling. Observe good industrial hygiene practices.

## Conditions for safe storage, including any incompatibilities

Level 1 Aerosol.

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122°F. The pressure in sealed containers can increase under the influence of heat. 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 in a well-ventilated place. Refrigeration recommended. Keep away from food, drink and animal feedingstuffs. Store away from incompatible materials (see Section 10 of the SDS). Level 1 Aerosol (NFPA 30B)

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## 8. Exposure controls/personal protection

Occupational exposure limits
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211	OSHA Ta	hla 7-1	I imite fo	r Air	Contaminants	129	CFR	1910	1000\
UO.	USHA I	ible Z-I	LIIIIII 10	IAII	Contaminants	123	CFR	IJIU.	IUUUI

Components	туре	value	
Ethyl Alcohol (CAS 64-17-5)	PEL	1900 mg/m3	
		1000 ppm	
<b>US. ACGIH Threshold Limit Values</b>	•		
Components	Туре	Value	
Ethyl Alcohol (CAS 64-17-5)	STEL	1000 ppm	
US. NIOSH: Pocket Guide to Chem	ical Hazards		
Components	Туре	Value	
Ethyl Alcohol (CAS 64-17-5)	TWA	1900 mg/m3	
		1000 ppm	
US. Workplace Environmental Exp	osure Level (WEEL) Guides		
Components	Type	Value	
1,1-Difluoroethane (CAS 75-37-6)	TWA	2700 mg/m3	
•		1000 ppm	

**Biological limit values** 

Appropriate engineering

controls

No biological exposure limits noted for the ingredient(s). Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

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

Hand protection Wear appropriate chemical resistant gloves.

Skin protection

Other Choose body protection according to the amount and concentration of the dangerous substance at

the work place.

Respiratory protection If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an

air-supplied respirator.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Do not get in eyes. When using do not smoke. Avoid contact with skin. 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** Gas. Form Aerosol.
Color colorless
Odor fruity alcoholic

Odor threshold Not available.

**pH** 9.5 - 10.5 estimated

Initial boiling point and boiling

Melting point/freezing point

Not available.

212 °F (100 °C) estimated

range

Flash point -58.0 °F (-50.0 °C) Propellant estimated

Evaporation rate

Not available.

Flammability (solid, gas)

Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

4.2 % estimated

(%)

Flammability limit - upper

16.9 % estimated

(%)

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 65 - 75 psig @ 70F estimated

Vapor density Not available.

Relative density Not available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

**Auto-ignition temperature** 749.57 °F (398.65 °C) estimated

**Decomposition temperature** Not available. **Viscosity** Not available.

Other information

Specific gravity 1.133 estimated

10. Stability and reactivity

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

Chemical stability Risk of ignition. Stable at normal conditions.

Possibility of hazardous Hazardous polymerization does not occur.

reactions

otions

Conditions to avoid Heat, flames and sparks. Avoid temperatures exceeding the flash point. Do not mix with other

chemicals. Contact with incompatible materials.

**Incompatible materials** Strong oxidizing agents. Amines. Isocyanates. Acids.

Hazardous decomposition M

products

May include oxides of nitrogen. May include oxides of phosphorus. No hazardous decomposition

products are known.

11. Toxicological information

Information on likely routes of exposure

**Ingestion** Expected to be a low ingestion hazard.

InhalationNo adverse effects due to inhalation are expected.Skin contactNo adverse effects due to skin contact are expected.Eye contactDirect contact with eyes may cause temporary irritation.

Symptoms related to the physical, chemical and toxicological characteristics Headache. Irritation of nose and throat. Irritation of eyes and mucous membranes. Coughing. Skin

irritation.

Information on toxicological effects

Acute toxicity Acute LC50: 84 mg/l/4h, Rat, Inhalation

**Product Species Test Results** 15.5 OZ NAVY DEO DIS-1 LB 12PK (CAS Mixture) Inhalation LC50 Rat 84 mg/l/4h Oral LD50 Rat Components **Species Test Results** 1,1-Difluoroethane (CAS 75-37-6) **Acute** Inhalation LC50 Rat 44 - 437500 %, 4 Hours Ethyl Alcohol (CAS 64-17-5) **Acute** Inhalation LC50 Cat 85.41 mg/l, 4.5 Hours 43.68 mg/l, 6 Hours Mouse > 60000 ppm 79.43 mg/l, 134 Minutes Rat > 115.9 mg/l, 4 Hours 51.3 mg/l, 6 Hours Oral LD50 Monkey 6000 mg/kg Mouse 10500 ml/kg Rat 1187 - 2769 mg/kg 7800 ml/kg o-Phenylphenol (CAS 90-43-7) **Acute** Dermal LD50 Rabbit > 5000 mg/kg, 24 Hours Rat > 2000 mg/kg, 24 Hours Inhalation LC50 Rat > 949 mg/m3, If <1L: Consumer Commodity Hours > 36 mg/m3, 4 Hours Oral LD50 Rat > 2500 mg/kg Sodium Nitrite (CAS 7632-00-0) **Acute** Oral LD50 Rat 180 mg/kg \* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Not expected to be hazardous by OSHA criteria.

Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Respiratory sensitization Not available.

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

Germ cell mutagenicity Not expected to be hazardous by OSHA criteria. Not expected to be hazardous by WHMIS criteria.

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Carcinogenicity

## IARC Monographs. Overall Evaluation of Carcinogenicity

o-Phenylphenol (CAS 90-43-7) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

This product is not expected to cause reproductive or developmental effects. Reproductive toxicity

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** Not likely, due to the form of the product. **Chronic effects** Possible risks of irreversible effects.

**Further information** Danger of very serious irreversible effects. This product has no known adverse effect on human

health.

## 12. Ecological information

LC50: 1730 mg/L, Fish, 96.00 Hours **Ecotoxicity** 

EC50: 931 mg/L, Daphnia, 48.00 Hours

Product		Species	Test Results
15.5 OZ NAVY DEO DIS-1	LB 12PK (CAS M	ixture)	
Aquatic			
Algae	IC50	Algae	556 mg/L, 72 Hours
Crustacea	EC50	Daphnia	931 mg/L, 48 Hours
Fish	LC50	Fish	1730 mg/L, 96 Hours
Components		Species	Test Results
Ethyl Alcohol (CAS 64-17-5	)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	7700 - 11200 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	> 100.1 mg/l, 96 hours
o-Phenylphenol (CAS 90-43	3-7)		
Aquatic			
Algae	IC50	Algae	0.85 mg/L, 72 Hours
Crustacea	EC50	Daphnia	1.75 mg/L, 48 Hours
		Water flea (Daphnia magna)	1 - 2.4 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	3.4 mg/l, 96 hours
Sodium Nitrite (CAS 7632-0	0-0)		
Aquatic			
Crustacea	EC50	Greasyback shrimp (Metapenaeus ensis)	16.14 - 26.61 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	0.15 - 0.25 mg/l, 96 hours

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

Persistence and degradability No data is available on the degradability of this product.

**Bioaccumulative potential** No data available. Partition coefficient n-octanol / water (log Kow)

1,1-Difluoroethane 0.75 Ethyl Alcohol -0.31o-Phenylphenol 3.09

Mobility in soil No data available.

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation Other adverse effects

potential, endocrine disruption, global warming potential) are expected from this component.

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## 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents

under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into

sewers/water supplies. Dispose of contents/container in accordance with

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

local/regional/national/international regulation.

Local disposal regulations

Dispose in accordance with all applicable regulations.

The waste code should be assigned in discussion between the user, the producer and the waste Hazardous waste code

disposal company.

Waste from residues / unused

products

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).

Empty containers should be taken to an approved waste handling site for recycling or disposal. Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Do not re-use empty containers.

## 14. Transport information

DOT

UN1950 **UN** number **UN** proper shipping name Aerosols

Transport hazard class(es)

Class 2.1 Subsidiary risk Label(s) 2.1

Packing group Not applicable.

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

153. N82 Special provisions LTD QTY Packaging exceptions Packaging non bulk None Packaging bulk None

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently.

**IATA** 

**UN** number

**UN proper shipping name** Aerosols, flammable

Transport hazard class(es)

2.1 Class Subsidiary risk 2.1 Label(s)

Packing group Not applicable.

**Environmental hazards** No. **ERG Code** 101

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

Other information

Passenger and cargo

aircraft

Allowed.

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Allowed. Cargo aircraft only **Packaging Exceptions** LTD QTY

**IMDG** 

**UN** number UN1950 **UN proper shipping name AEROSOLS** 

Transport hazard class(es)

Class 2.1 Subsidiary risk Label(s) 2.1

Packing group Not applicable.

**Environmental hazards** 

Marine pollutant No.

Not available. **EmS** 

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

Packaging Exceptions
Transport in bulk according to
Annex II of MARPOL 73/78 and
the IBC Code

LTD QTY Not applicable.

DOT



# IATA; IMDG



## 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.

Pesticides are exempt from TSCA.

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Sodium Nitrite (CAS 7632-00-0) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Chemical name CAS number Reportable Threshold Threshold Threshold quantity planning quantity planning quantity, planning quantity, lower value upper value

Anhydrous Ammonia 7664-41-7 100 500 lbs

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
o-Phenylphenol	90-43-7	0.1 - 1	
Sodium Nitrite	7632-00-0	0.1 - 1	
t-Butyl Alcohol	75-65-0	0.1 - 1	

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SDS US

### Other federal regulations

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

Not regulated.

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

1.1-Difluoroethane (CAS 75-37-6)

Safe Drinking Water Act

Not regulated.

(SDWA)

WARNING: This product contains a chemical known to the State of California to cause cancer. **US** state regulations

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

1,1-Difluoroethane (CAS 75-37-6) Ethyl Alcohol (CAS 64-17-5) o-Phenylphenol (CAS 90-43-7) Sodium Nitrite (CAS 7632-00-0)

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

1,1-Difluoroethane (CAS 75-37-6) Ethyl Alcohol (CAS 64-17-5) o-Phenylphenol (CAS 90-43-7) Sodium Nitrite (CAS 7632-00-0)

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

Ethyl Alcohol (CAS 64-17-5) o-Phenylphenol (CAS 90-43-7) Sodium Nitrite (CAS 7632-00-0)

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

1,1-Difluoroethane (CAS 75-37-6) o-Phenylphenol (CAS 90-43-7) Sodium Nitrite (CAS 7632-00-0)

#### **US. California Proposition 65**

WARNING: This product contains a chemical known to the State of California to cause cancer.

### US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Inventory name

o-Phenylphenol (CAS 90-43-7) Listed: August 4, 2000

### International Inventories

Country(s) or region

Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory \*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 09-12-2014 **Revision date** 03-31-2015

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Yes

On inventory (yes/no)\*

#### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.