# SAFETY DATA SHEET.

Issuing date 29-Sep-2015 Revision Date 29-Sep-2015 Version 1.01

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product name THE DEFENDER

Recommended use of the chemical

and restrictions on use

<u>Product Type</u> Extremely flammable aerosol

Synonyms None

Supplier's details

Recommended Use Dry Rust Preventative.
Uses advised against No information available

Manufactured By: Nanoplas Inc. 2950 Prairie St., SW Grandville, MI 49418

Emergency telephone number

Chemical Emergency Phone Chemtrec 1-800-424-9300

Number

**Company Emergency Phone** 616-452-3707

Number

# 2. HAZARDS IDENTIFICATION

#### Classification

Serious eye damage/eye irritation	Category 2B
Aspiration toxicity	Category 1
Flammable aerosols	Category 1
Gases under pressure	Compressed Gas

# GHS Label elements, including precautionary statements

## **Emergency Overview**

## DANGER

#### Hazard Statements

Causes eye irritation

May be fatal if swallowed and enters airways

Extremely flammable aerosol

Contains gas under pressure; may explode if heated



Appearance opaque

Physical state Aerosol

Odor Solvent

# **Precautionary Statements - Prevention**

Wash hands and face thoroughly after handling

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

# **Precautionary Statements - Response**

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 advice/attention

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Do NOT induce vomiting

## **Precautionary Statements - Storage**

Store locked up

Protect from sunlight. Store in a well-ventilated place

Do not expose to temperatures exceeding 122°F (50°C)

# **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

# Hazards not otherwise classified (HNOC)

None

## Other information

· Toxic to aquatic life with long lasting effects

0.17979% of the mixture consists of ingredient(s) of unknown toxicity

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %*
PROPANE/ISOBUTANE/N-BUTANE	68476-86-8	90-100
PETROLEUM DISTILLATES	64742-47-8	1-10

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

# 4. FIRST AID MEASURES

## First aid measures for different exposure routes

General advice Avoid contact with eyes, skin, and clothing. Avoid breathing, vapors, mist, or gas.

**Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes. Consult a physician if irritation

persists.

Skin contact Wash off immediately with soap and plenty of water. Get medical attention immediately if

symptoms occur.

**Inhalation** Move to fresh air. If not breathing, give artificial respiration. If breathing has stopped,

contact emergency medical services immediately.

**Ingestion** Do NOT induce vomiting. Call a physician immediately. Never give anything by mouth to an

unconscious person. Risk of product entering the lungs on vomiting after ingestion.

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

Main Symptoms Causes skin and eye irritation. Inhalation causing Central Nervous System effects.

Ingestion causing lung damage.

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

Notes to physician Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

## Suitable Extinguishing Media

water fog. Dry chemical. Carbon dioxide (CO2). Cool containers / tanks with water spray.

Unsuitable Extinguishing Media Do not use a solid water stream as it may scatter and spread fire.

# Specific hazards arising from the chemical

Extremely Flammable/Flammable. Keep product and empty container away from heat and sources of ignition. Flammable. Keep product and empty container away from heat and sources of ignition.

## **Explosion Data**

Sensitivity to Mechanical Impact none.
Sensitivity to Static Discharge Yes.

#### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Use shielding to protect fire-fighters from bursting containers.

# 6. ACCIDENTAL RELEASE MEASURES

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#### THE DEFENDER

#### Personal precautions, protective equipment and emergency procedures

Personal precautions

Use with adequate ventiliation to keep the exposure levels below the OELS.

Environmental precautions

**Environmental precautions** Report spills as required by local and federal regulations.

## Methods and materials for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Contain liquid and collect with an inter, non-combustible material.

# 7. HANDLING AND STORAGE

## Precautions for safe handling

Advice on safe handling Avoid contact with eyes. Avoid breathing vapors or mists. Contents under pressure. Do not

puncture or incinerate cans. Do not stick pin or any other sharp object into opening on top of can. Avoid skin contact. Use with adequate ventilation. Keep container away from heat, flames,and all other sources of ignition. Keep can away from all sources of electricity such

as electric motors and batteries. Do not spray on hot surfaces.

## Conditions for safe storage, including any incompatibilities

**Technical measures/Storage** 

conditions

Keep containers tightly closed in a cool, well-ventilated place.

**Incompatible products** Store away from strong acids, alkalis, or oxidizing agents.

Aerosol Level 3

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

**Exposure Guidelines** 

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	
PROPANE/ISOBUTANE/N-BUTANE	74-98-6: TWA: 1000 ppm	74-98-6:TWA: 1000 ppm	74-98-6:IDLH: 2100 ppm	
68476-86-8	106-97-8: STEL: 1000 ppm	TWA: 1800 mg/m <sup>3</sup>	TWA: 1000 ppm	
	75-28-5: STEL: 1000 ppm	(vacated) TWA: 1000 ppm	TWA: 1800 mg/m <sup>3</sup>	
		(vacated) TWA: 1800 mg/m <sup>3</sup>	106-97-8:TWA: 800 ppm	
		106-97-8: (vacated) TWA: 800	TWA: 1900 mg/m <sup>3</sup>	
		ppm	75-28-5:TWA: 800 ppm	
		(vacated) TWA: 1900 mg/m <sup>3</sup>	TWA: 1900 mg/m <sup>3</sup>	

ACGIH: (American Conference of Governmental Industrial Hygienists)

OSHA: (Occupational Safety & Health Administration) NIOSH IDLH: Immediately Dangerous to Life or Health

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

**Exposure controls** 

Engineering Measures Ventilation systems. Use adequate ventilation to keep the exposure levels below the OELs.

## Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Safety glasses with side-shields.

Solvent

#### THE DEFENDER

**Skin and body protection** Chemical resistant apron. Protective gloves.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

Odor

Based on propellant

provided in accordance with current local regulations.

**Hygiene measures** Handle in accordance with good industrial hygiene and safety practice.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

## Physical and chemical properties

Physical state Aerosol Appearance opaque

Color dark green Odor Threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Methods</u>

pH No information available
Melting/freezing point No information available
Boiling point/boiling range
Flash Point -104.4 °C / -156 °F
Evaporation rate No information available

Flammability (solid, gas)

No information available

Flammability Limits in Air

upper flammability limit<br/>lower flammability limitNo information available<br/>No information availableVapor pressureNo information availableVapor densityNo information available

Specific Gravity 0.574

Water solubility Practically insoluble
Partition coefficient: n-octanol/waterNo information available
Autoignition temperature No information available
Decomposition temperature No information available
Viscosity No information available
Explosive properties No information available

Other information

**VOC Content(%)** 99.18

# 10. STABILITY AND REACTIVITY

# Reactivity

Stable under recommended storage conditions

#### **Chemical stability**

Stable under recommended storage conditions.

## Possibility of hazardous reactions

None under normal processing.

#### **Conditions to Avoid**

Extremes of temperature and direct sunlight.

## **Incompatible Materials**

Store away from strong acids, alkalis, or oxidizing agents.

## **Hazardous Decomposition Products**

Carbon oxides. Fumes. Hydrocarbons.

# 11. TOXICOLOGICAL INFORMATION

## Information on likely routes of exposure

Product Information Product does not present an acute toxicity hazard based on known information

**Inhalation** Exposure to high vapour concentrations may cause nervous systems effects such as

headache, nausea, and dizziness.

**Eye contact** May cause irritation.

**Skin contact** None known.

Ingestion Not acutely toxic. Aspiration into the lungs during swallowing may be harmful.

**Component Information** 

Chemical Name	LD50 Oral	LD50 Oral LD50 Dermal		
PETROLEUM DISTILLATES	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.2 mg/L (Rat) 4 h	
64742-47-8				

## Information on toxicological effects

Symptoms Symptoms of overexposure may be headache, dizziness, tiredness, nausea, and vomiting.

Causes eye and skin irritation. May cause respiratory system irritation. Aspiration into the lungs during swallowing may cause serious lung damage which may be harmful. May cause mild irritation to eyes. Not acutely toxic. Aspiration into the lungs during swallowing

may cause serious lung damage which may be fatal.

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritationNo information available.Eye damage/irritationMay cause slight irritation.SensitizationNo information available.Germ Cell MutagenicityNo information available.

**Carcinogenicity**There are no known carcinogenic chemicals in this product.

**Reproductive toxicity**The ingredients are not reproductive hazards.

Specific target organ systemic toxicity (single exposure)

Specific target organ systemic

toxicity (repeated exposure)
Chronic toxicity

None known.

None known.

xicity Intentional misuse by deliberately concentrating and inhaling contents may be harmful or

fatal. Chronic hydrocarbon abuse has been associated with irregular heart rhythms and

potential cardiac arrest.

Target Organ Effects Central nervous system, Central Vascular System (CVS), Eyes, Respiratory system, Skin,

Kidney, Peripheral Nervous System (PNS).

**Aspiration hazard** May be fatal if swallowed and enters airways.

## Numerical measures of toxicity - Product Information

**Unknown Acute Toxicity** 0.17979% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 17255 mg/kg
ATEmix (dermal) 2315 mg/kg
ATEmix (inhalation-dust/mist) 6.3 mg/l
ATEmix (inhalation-vapor) 55096 mg/l

# 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

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## THE DEFENDER

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
PROPANE/ISOBUTANE/N- BUTANE 68476-86-8	-	-	-	-
PETROLEUM DISTILLATES 64742-47-8	-	45 mg/L LC50 Pimephales promelas 96h flow-through 2.2 mg/L LC50 Lepomis macrochirus 96h static 2.4 mg/L LC50 Oncorhynchus mykiss 96h static	-	-

# Persistence and degradability

No information available.

# **Bioaccumulation**

Chemical Name	log Pow
PROPANE/ISOBUTANE/N-BUTANE	<=2.8
68476-86-8	

Other adverse effects No information available

# 13. DISPOSAL CONSIDERATIONS

## **Waste treatment**

Waste Disposal Methods Dispose of in accordance with federal, state, and local regulations.

**Contaminated packaging** Do not re-use empty containers.

# 14. TRANSPORT INFORMATION

**DOT Ground** CONSUMER COMMODITY ORM-D

or

LIMITED QUANTITY

IATA UN1950, AEROSOLS, FLAMMABLE, 2.1,LTD.QTY.

IMDG UN1950, AEROSOLS, 2.1,LTD.QTY.

# **15. REGULATORY INFORMATION**

# International Inventories

Chemical Name	TSCA	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AICS
PROPANE/ISOBUTA NE/N-BUTANE	Х	Х	Х	Not listed	Х	Х	Х	Х
PETROLEUM DISTILLATES	Х	Х	Х	Not listed	Х	Х	Х	Х

#### THE DEFENDER

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

CHINA - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

# U.S. Federal Regulations

## **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

#### SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	Yes
Reactive Hazard	no

#### **Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

# U.S. State Regulations

# **California Proposition 65**

This product does not contain any known Proposition 65 chemicals.

## U.S. State Right-to-Know Regulations

EPA Pesticide Registration Number Not applicable

## Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

# **WHMIS Hazard Class**

B1 Flammable gas B5 Flammable aerosol D2B Toxic materials



# **16. OTHER INFORMATION**

NFPA Health Hazard 2 Flammability 4 Instability 0 Physical and chemical

hazards -

HMIS Health Hazard 2 Flammability 4 Physical Hazard 1 Personal protection B

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**Revision Note** 

No information available

#### **Disclaimer**

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

**End of Safety Data Sheet**