

# SWCNT IPA Dispersion

US Research Nanomaterials, Inc. [www.us-nano.com](http://www.us-nano.com)

## SAFETY DATA SHEET

Revised Date 7/26/2022

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product identifiers

Product name: SWCNT IPA Dispersion

Product Number : US4110W

CNTs (C) CAS#: 308068-56-6

Graphene (C) CAS#: 7782-42-5

Carbon Black (C) CAS#: 7440-44-0

IPA CAS#: 67-63-0

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

Identified uses : Research

#### 1.3 Details of the supplier of the safety data sheet

Company: [US Research Nanomaterials, Inc.](http://www.us-nano.com) 3302 Twig Leaf Lane

Houston, TX 77084

USA

Telephone: +1 832-460-3661 Fax: +1 281-492-8628

#### 1.4 Emergency telephone number

Emergency Phone # : (832) 359-7887

## **2. HAZARDS IDENTIFICATION**

### **2.1 Classification of the substance or mixture**

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

**Eye irritation (Category 2A), H319**

**Respiratory system, H335**

**For the full text of the H-Statements mentioned in this Section, see Section 16.**

### **2.2 GHS Label elements, including precautionary statements**

#### **Pictogram**

**Signal word Danger**

**Hazard statement(s)**

**H225: Highly flammable liquid and vapor. H319 Causes serious eye irritation. H335 May cause respiratory irritation.**

**Precautionary statement(s)**

**P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.**

**P264 Wash skin thoroughly after handling.**

**P271 Use only outdoors or in a well-ventilated area.**

**P280 Wear protective gloves/ eye protection/ face protection.**

**P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.**

**P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**

**P312 Call a POISON CENTER or doctor/ physician if you feel unwell.**

**P337 + P313 If eye irritation persists: Get medical advice/ attention.**

**P403 + P233 Store in a well-ventilated place. Keep container tightly closed.**

**P405 Store locked up.**

**P501 Dispose of contents/ container to an approved waste disposal plant.**

**2.3 Hazards not otherwise classified (HNOC) or not covered by GHS**

**None**

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### **3.1 Substances**

**Synonyms : Carbon Nanotubes, CAS-No. : 308068-56-6 Graphene CAS#: 7782-42-5**

**Carbon Black CAS#: 7440-44-0**

**IPA CAS#: 67-63-0**

**Hazardous components**

**Component: Carbon Nanotubes, IPA Classification: Eye Irrit. 2A; STOT SE 3; H225, H319, H335**

**Concentration:**

**For the full text of the H-Statements mentioned in this Section, see Section 16.**

### **4. FIRST AID MEASURES**

#### **4.1 Description of first aid measures**

**General advice**

**Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.**

**If inhaled**

**If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. In case of skin contact**

**Wash off with soap and plenty of water. Consult a physician.**

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### **4.2 Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11

#### **4.3 Indication of any immediate medical attention and special treatment needed**

no data available

### **5. FIREFIGHTING MEASURES**

#### **5.1 Extinguishing media**

Suitable extinguishing media

Alcohol-resistant foam, dry chemical or carbon dioxide.

#### **5.2 Special hazards arising from the substance or mixture**

Carbon oxides

#### **5.3 Advice for firefighters**

Wear self contained breathing apparatus for firefighting if necessary.

#### **5.4 Further information**

no data available

## **6. ACCIDENTAL RELEASE MEASURES**

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

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

### **6.2 Environmental precautions**

Do not let product enter drains.

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

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

### **6.4 Reference to other sections**

For disposal see section 13.

## **7. HANDLING AND STORAGE**

### **7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection. For precautions see section 2.2.

### **7.2 Conditions for safe storage, including any incompatibilities**

Keep container tightly closed in a dry and well-ventilated place.

### **7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **8.1 Control parameters**

**Components with workplace control parameters**

**Contains no substances with occupational exposure limit values.**

### **8.2 Exposure controls**

**Appropriate engineering controls**

**Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.**

**Personal protective equipment**

**Eye/face protection**

**Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).**

**Skin protection**

**For any handling steps where the substance is in particulate form or in a suspension with pure water where the substance is not solubilized, the gloves must be comprised of material that successfully passes ASTM F-1671. For any handling steps where the substance is part of a carrier liquid, other than the aqueous suspension noted in the previous paragraph, gloves must be comprised of material that successfully passes ASTM F-739 (continuous liquid contact method). Gloves must be changed before they show degradation and before the designated breakthrough time for the carrier liquid (as determined by the ASTM F-739 testing or by the manufacturer). Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.**

**Body Protection**

**Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.**

**Respiratory protection**

**The EPA mandates the use of full face respirators with minimum N100 grade cartridges if there is any risk of exposure to the dust. For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or**

type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

### **9.1 Information on basic physical and chemical properties**

a) Appearance: liquid

b) Odor: odorless

c) Odor Threshold: no data available

d) pH: no data available

e) Melting point/freezing point: no data available

f) Initial boiling point and boiling range: no data available

g) Flash point: no data available

h) Evaporation rate: no data available

i) Flammability (solid, gas): no data available

j) Upper/lower flammability or explosive limits: no data available k) Vapor pressure: no data available

l) Vapor density: no data available

m) Relative density: no data available

n) Water solubility: insoluble

o) Partition coefficient - noctanol/water: no data available p) Auto-ignition temperature: no data available

q) Decomposition temperature: no data available

r) Viscosity: no data available

s) Explosive properties: no data available

t) Oxidizing properties: no data available

## 9.2 Other safety information

no data available

## 10. STABILITY AND REACTIVITY 10.1 Reactivity

no data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

no data available

### 10.4 Conditions to avoid

no data available

### 10.5 Incompatible materials

Strong oxidizing agents

### 10.6 Hazardous decomposition products

Other decomposition products - no data available In the event of fire: see section 5



## **11. TOXICOLOGICAL INFORMATION**

### **11.1 Information on toxicological effects Acute toxicity**

**no data available**

**Inhalation: no data available**

**Dermal: no data available**

**Skin corrosion/irritation**

**no data available**

**Serious eye damage/eye irritation**

**no data available**

**Respiratory or skin sensitization**

**no data available**

**Germ cell mutagen city**

**no data available**

**Carcinogenicity**

**no data available**

**Reproductive toxicity**

**no data available**

**Specific target organ toxicity - single exposure**

**Inhalation - May cause respiratory irritation.**

**Specific target organ toxicity - repeated exposure**

no data available

**Aspiration hazard**

no data available

**Additional Information**

**RTECS: Not available**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**12.ECOLOGICAL INFORMATION 12.1 Toxicity**

no data available

**12.2 Persistence and degradability**

no data available

**12.3 Bioaccumulative potential**

no data available

**12.4 Mobility in soil**

no data available

**12.5 Results of PBT and vPvB assessment**

**PBT/vPvB assessment not available as chemical safety assessment not required/not conducted**

**12.6 Other adverse effects**

no data available

## **13.DISPOSAL CONSIDERATIONS**

### **13.1 Waste treatment methods**

#### **Product**

**Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.**

#### **Contaminated packaging**

**Dispose of as unused product.**

## **14.TRANSPORT INFORMATION**

### **DOT (US)**

**Shipping Name: IPA Dispersion Hazard Class: 3**

**UN/NA #: UN1170**

**Packing Group: II**

### **IMDG**

**Shipping Name: IPA Dispersion Hazard Class: 3**

**UN/NA #: UN1170**

**Packing Group: II**

### **IATA**

**Shipping Name: IPA Dispersion Hazard Class: 3**

**UN/NA #: UN1170 Packing Group: II**

## **15.REGULATORY INFORMATION**

### **SARA 302 Components**

**SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.**

### **SARA 313 Components**

**SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. SARA 311/312 Hazards**

**This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.**

## **16.OTHER INFORMATION**

**Full text of H-Statements referred to under sections 2 and 3.**

**Eye Irrit. Eye irritation**

**H225: Highly flammable liquid and vapor.**

**H319 Causes serious eye irritation.**

**H335 May cause respiratory irritation.**

**STOT SE Specific target organ toxicity - single exposure**

**HMIS Rating**

**Health hazard: 1**

**Flammability: 2**

**Physical Hazard 0**

**NFPA Rating**

**Health hazard: 1**

**Fire Hazard: 2**

**Reactivity Hazard: 0**

**Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.