Rebel Diluent, SMA

Safety Data Sheet

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SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Mixture (liquid, clear)

Product Name: Rebel Diluent, SMA

1.2. Intended Use of the Product

Use of the Substance/Mixture: For research and professional use only. Not for use in diagnostic procedures.

1.3. Name, Address, and Telephone of the Responsible Party

Company

908 Devices Inc.
645 Summer St
Boston, MA 02210
T - 1 (857) 254 - 1500
http://908devices.com/

1.4. Emergency Telephone Number

Emergency Number : T - 1 (844) 908 - 4357

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

GHS-US Classification

Flam. Liq. 2	H225
Acute Tox. 5 (Oral)	H303
Acute Tox. 5 (Dermal)	H313
Serious eye irritation 2A	H319
STOT SE 3 (Respitory)	H335

2.2. Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US) :

GHS02 GHS07

Signal Word (GHS-US) : Danger

Hazard Statements (GHS-US) : H225 – Highly flammable liquid and vapor.
H303+H313 – May be harmful if swallowed or in contact with skin.
H319 – Causes serious eye irritation.
H335 – May cause respiratory irritation (respiratory tract irritation)

Precautionary Statements (GHS-US) : P210 – Keep away from heat, hot surface, sparks, open flames and other ignition sources. – No smoking.
P233 – Keep container tightly closed.
P240 – Ground/bond container and receiving equipment.
P241 – Use explosion-proof electrical, ventilating, and lighting equipment.
P242 – Use only non-sparking tools.
P243 – Take precautionary measures against static discharge.
P261 – Avoid breathing fume, mist, vapors, and spray.
P264 – Wash hands, forearms, and other exposed areas thoroughly after handling.
P270 – Do not eat, drink or smoke when using this product.
P271 – Use only outdoors or in a well-ventilated area.
P280 – Wear protective gloves, protective clothing, and eye protection.
P303+P361+P353 – If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 – If inhaled: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 – If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present. Continue rinsing.
P312 – Call a poison center or doctor if you feel unwell.

P337+P313 – If eye irritation persists: Get medical advice/attention.
P370+P378 - In case of fire: Use dry chemical powder, alcohol-resistant foam, carbon dioxide (CO_2) to extinguish.
P403+P233+P235 - Store in a well-ventilated place. Keep container tightly closed. Keep cool.
P405 - Store locked up.
P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

2.4. Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not Applicable

3.2. Mixture

Name	Product Identifier	%
Water	(CAS No.) 7732-18-5	> 47
Isopropyl Alcohol	(CAS No.) 67-63-0	20 - 50
Ammonium Acetate	(CAS No) 631-61-8	1 - 3

SECTION 4: FIRST AID MEASURES

4.1. Description of First-aid Measures

First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid Measures After Inhalation: Call a physician immediately. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Use oxygen as required, provided a qualified operator is present.
First-aid Measures After Skin Contact: Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use. Call a physician.
First-aid Measures After Eye Contact: Rinse immediately with plenty of , also under the eyelids, for least 15 minutes. Call a physician.
First-aid Measures After Ingestion: Call a physician immediately. DO NOT induce vomiting. Immediate medical attention is required. Never give anything by mouth to an unconscious person.
Notes to Physician: Treat symptomatically.

4.2. Indication of Any Immediate Medical Attention and Special Treatment Needed

If medical advice is needed, treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO_2). Use water spray keep fire-exposed container cool.
Unsuitable Extinguishing Media: Do not use a heavy water stream. A heavy water stream may scatter and the fire.

5.2. Specific Hazards During Firefighting

Fire Hazard: Flammable.
Explosion Hazard: Vapours may form explosive mixtures with air. Vapours are heavier than air and mau spread along the floor. Vapours may travel to areas away from work site before igniting/flashing back to vapor source.

5.3. Advice for Firefighters

Protection During Firefighting: Wear self-contained breathing apparatus and protective suit.
Hazardous Combustion Products: In case of fire hazardous decomposition, products may be produced, such as: Carbon monoxide (CO), Carbon dioxides (CO_2), Formaldehyde.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions

Wear personal protective equipment. Immediately evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Remove all sources of ignition. Do not swallow. Do not breathe the vapors or spray mist. Avoid contact with skin, eyes, and clothing.

6.2. Environmental Precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Discharge into the environment must be avoided. Do not flush into surface water or sanitary sewer system. Do not allow run-off from firefighting to enter drains or water courses.

6.3. Methods for Cleaning Up

Ventilate the area. No sparking tools should be used. Use explosion-proof equipment. Contain spillage, soak up with non-combustible absorbent material, (e.g., sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local/national regulations.

6.4. Reference to Other Sections

Refer to Section 13 for disposal methods.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Precautions for Safe Handling: Wear personal protective equipment. Use only in well-ventilated areas. Keep container tightly closed. Do not smoke. Do not swallow. Do not breathe vapors or spray mist. Avoid contact with skin, eyes, and clothing.
Advice on Protection Against Fire and Explosion: Keep away from fire, sparks, and heated surfaces. Take precautionary measures against static discharges. Ensure all equipment is electrically grounded before beginning transfer operations. Use explosion-proof equipment. Keep product and empty container away from heat and sources of ignition. No sparking tools should be used. No smoking.

7.2. Precautions for Safe Storage

Store in area designed for storage of flammable liquids. Protect from physical damage. Keep containers tightly closed in a dry, cool and well-ventilated place. Containers, which are opened, must be carefully re-sealed and kept upright to prevent leakage. Keep away from heat and sources of ignition. Keep away from direct sunlight. Store away from incompatible substances. Container is hazardous when empty. Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Exposure Controls

Protective Measures : Ensure that eyewash stations and safety showers are near to the workstation location.

Engineering Measures : Use with local exhaust ventilation. Prevent vapor buildup by providing adequate ventilation during and after use.

Eye Protection : Do not wear contact lenses.
Wear safety glasses with side-shields if splashes are likely to occur. Wear goggles or face shield (this gives complete protection to eyes).

Hand Protection : Wear solvent-resistant gloves (gloves must be inspected before use. Replace when worn).

Skin and Body Protection : As appropriate, wear solvent-resistant apron, flame retardant anti-static protective clothing (if splashes are likely to occur), and/or protective suit.

Respiratory Protection : In case of insufficient ventilation, wear suitable respiratory equipment (use NIOSH approved respiratory protection).

Hygiene Measures : Do not eat, drink, or smoke. Wash hands before work breaks and immediately after handling the product. Keep working clothes separately. Do not swallow. Do not breathe vapors or spray mist. Avoid contact with skin, eyes, and clothing.

For substances listed in Section 3 that are not listed here, this material has an established AIHA ERPG exposure limit. The current list of ERPG exposure limits can be found at:
http: //www.aiha.org/insideaiha/GuidelineDevelopment/ERPG/Documents/2011erpgweelhandbook_table-only.pdf.

8.2. Exposure Guidelines

Component	CAS No.	Type	Exposure Limits	Source
Isopropyl Alcohol	67-63-0	TWA (Time Weighted Average)	400 ppm (980 mg/m³)	U.S. - OSHA - Final PEL's TWA's
Isopropyl Alcohol	67-63-0	STEL (Short Term Exposure Limit)	400 ppm	ACGIH:US. ACGIH Threshold Limit Values
Isopropyl Alcohol	67-63-0	TWA (Time Weighted Average)	200 ppm	ACGIH:US. ACGIH Threshold Limit Values

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State : Liquid, clear
Color : Colorless
Odor : Slight alcohol-like
pH : Not determined
Melting Point/Freezing Point : Not determined
Boiling Point/Boiling Range : Not determined
Flash Point : Not determined
Evaporation Rate : Not determined
Lower Explosion Limit : Not determined
Upper Explosion Limit : Not determined
Vapor Pressure : Not determined
Vapor Density : Not determined
Density : Not determined
Water Solubility : Completely soluble
Ignition Temperature: : Not determined

9.2. Other Information: No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1. Chemical Stability: Stable under recommended storage conditions.

10.2. Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

10.3. Conditions to Avoid: Heat, flames and sparks. Keep away from direct sunlight.

10.4. Incompatible Materials: Strong oxidizing agents, Aluminum, Magnesium. May attack many plastics, rubbers, and coatings.

10.5. Hazardous Decomposition Products: In case of fire hazardous decomposition, products may be produced such as: Carbon monoxide (CO), Carbon dioxide (CO_2), Formaldehyde.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects

Acute Oral Toxicity: : LD50 (3600 mg/kg); Species: mouse (Isopropyl Alcohol)
Acute Inhalation Toxicity: : LC50 (8h 16000 ppm); Species: rat (Isopropyl Alcohol)
Acute Dermal Toxicity: : LC50 (12800 mg/kg); Species: rabbit (Isopropyl Alcohol)
Skin Irritation: : No Data Available.
Eye Irritation: : No Data Available.
Repeated Dose Toxicity: : No Data Available.
Reproductive Toxicity: : Classified Reproductive system/toxin/female, Development toxin [POSSIBLE] (Isoproply Alcohol)
Specific Organ Toxicity: : May cause damage to the following organs: kidneys, liver, skin, central nervous system (CNS).
: Possible Carcinogen

SECTION 12: ECOLOGICAL INFORMATION

Toxicity to fish: : LC50 – (Fathead Minnow) - 64000 mg/l - 96 h (Isopropyl Alcohol)

Toxicity to daphnia and other aquatic invertebrates: : No Data Available.

Toxicity to Bacteria: : No Data Available.

Additional Information: : Accumulation in aquatic organisms is unlikely. The product is readily degradable in the environment. Do not flush into surface water or sanitary sewer system.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Disposal Methods

Observe all local, regional, national, and international regulations.

SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored and can vary based on several variables that may or may not have been known at the time the SDS was issued.

14.1. In Accordance with DOT

Proper Shipping Name : ISOPROPANOL Solution
Hazard Class : 3
Identification Number : UN1219
Label Codes : 3
Packing Group : II
ERG Number : 129

14.3. In Accordance with IATA

Proper Shipping Name : ISOPROPANOL Solution
Packing Group : II
Identification Number : UN1219
Hazard Class : 3
Label Codes : 3

SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations

US. EPA CERCLA Hazardous Substances (40 CFR 302) : No component(s) of this product are subject to release reporting under 40 CFR 302.

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

SARA 313 Components : The following components are subject to reporting levels established by SARA Title III, Section 313
: Isopropyl Alcohol, CAS No. 67-63-0

SARA 311/312 Hazards : Fire Hazard, Acute Health Hazard, Chronic Health Hazard

California Prop. 65 : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Massachusetts RTK : Isopropyl Alcohol, CAS No. 67-63-0
: Ammonium Acetate, CAS No. 631-61-8

New Jersey RTK : Isopropyl Alcohol, CAS No. 67-63-0
: Ammonium Acetate, CAS No. 631-61-8

Pennsylvania RTK : Isopropyl Alcohol, CAS No. 67-63-0
: Ammonium Acetate, CAS No. 631-61-8

WHMIS Classification : B2: Flammable liquid
This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

15.2. Inventories

US. Toxic Substances Control Act : On TSCA Inventory.

EINECS (European Inventory of Existing Commercial Chemical Substances) : On the inventory, or in compliance with, the inventory.

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL) : All components of this product are on the Canadian DSL.

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision Date : 02/02/2022

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200

Hazard Rating and Rating Systems (e.g., NFPA) : This information is intended solely for the use of individuals trained in the system.

HMIS Rating
Health hazard: 1
Chronic Health Hazard: *
Flammability: 3
Physical Hazard: 0
NFPA Rating
Health hazard: 1
Fire Hazard: 3
Reactivity Hazard: 0

Further Information
The information provided in this Safety Data Sheet (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 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. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.