

Safety Data Sheet

1. SUBSTANCE IDENTITY AND COMPANY CONTACT INFORMATION

Product Name: Liberation Spray

Company: Clay Revolution, LLC.

Address: 107 S Market Street, Madison
North Carolina, United States 27025

Telephone Number: 336-949-4396

Emergency Telephone Number: 336-949-4396

E-mail Address: info@clayrevolution.com

Recommended use and restraint: Release agent

2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a hazardous substance or mixture.

GHS label elements

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Other hazards

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

Mixture

Components

No hazardous ingredients

4. FIRST AID MEASURES

If inhaled:

Remove person to fresh air. If signs/symptoms continue, get medical attention.
Keep patient warm and at rest.

If breathing is irregular or stopped, administer artificial respiration.

In case of skin contact:

Remove contaminated clothing. If irritation develops, get medical attention.
In case of contact, immediately flush skin with plenty of water.

In case of eye contact:

Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes.

If eye irritation persists, consult a specialist.

If swallowed:

Move the victim to fresh air.

Do NOT induce vomiting.

Rinse mouth with water.

Most important symptoms and effects, both acute and delayed:

No information available.

None known.

Notes to physician:

No information available.

5. FIREFIGHTING MEASURES

Suitable extinguishing media:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media:

High volume water jet.

Specific hazards during firefighting:

Fire may cause evolution of:

Carbon oxides

Metal oxides

Hazardous combustion products:

Carbon oxides

Metal oxides

Further information:

Standard procedure for chemical fires.

Special protective equipment for firefighters:

In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.

Exposure to decomposition products may be a hazard to health.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Evacuate personnel to safe areas.

Use personal protective equipment.

Refer to protective measures listed in sections 7 and 8.

Environmental precautions

Try to prevent the material from entering drains or water courses.

Prevent further leakage or spillage if safe to do so.

Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up:

Contain spillage and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

7. HANDLING AND STORAGE

Advice on safe handling:

For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the application area.

Wash hands and face before breaks and immediately after handling the product.

Conditions for safe storage:

Store in original container.

Keep container closed when not in use.

Keep in a dry, cool and well-ventilated place.

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Store in accordance with the particular national regulations.

Keep in properly labelled containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures:

None

Personal protective equipment

Respiratory protection:

In the case of vapor formation use a respirator with an approved filter.

Hand protection:

For prolonged or repeated contact use protective gloves. The remarks choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case.

Eye protection:

Safety glasses with side-shields

Skin and body protection:

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific workplace.

Protective measures:

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

Hygiene measures:

Wash face, hands and any exposed skin thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid
Color:	Colorless
Odor:	Characteristic
Odor Threshold:	No data available
pH:	Not applicable
Melting point/range:	No data available
Boiling point/boiling range:	Ca. 347 °F / 175 °C
Flash point:	Does not flash
Evaporation rate:	No data available
Flammability (liquids):	Will not burn
Self-ignition:	No data available
Upper explosion limit / Upper flammability limit:	No data available
Lower explosion limit / Lower flammability limit:	No data available
Vapor pressure:	<0.1 hPa (68 °F / 20 °C)
Relative vapor density:	No data available

Relative density:	0.967 (68 °F / 20 °C) Reference substance: Water The value is calculated
Bulk density:	No data available
Solubility(ies)	
Water solubility:	immiscible
Solubility in other solvents:	No data available
Partition coefficient	
n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity	
Viscosity, dynamic:	No data available
Viscosity, kinematic:	No data available
Explosive properties:	Not explosive
Oxidizing properties:	No data available
Sublimation point:	No data available

10. STABILITY AND REACTIVITY

Reactivity:	No hazards to be specifically mentioned.
Chemical stability:	Stable under normal conditions.
Possibility of hazardous reactions:	No dangerous reaction known under conditions of normal use.
Conditions to avoid:	No conditions to be specifically mentioned.
Incompatible materials:	No materials to be especially mentioned.
Hazardous decomposition products:	>150 °C small quantities of formaldehyde may be formed.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product:	
Acute oral toxicity:	Remarks: This information is not available.
Acute inhalation toxicity:	Remarks: This information is not available.
Acute dermal toxicity:	Remarks: This information is not available.

Skin corrosion/irritation

Product:

Remarks: This information is not available.

Serious eye damage/eye irritation

Product:

Remarks: This information is not available.

Respiratory or skin sensitization

Product:

Remarks: This information is not available.

Germ cell mutagenicity

Product:

Genotoxicity in vitro: Remarks: No data available

Genotoxicity in vivo: Remarks: No data available

Carcinogenicity

Product:

Remarks: No data available

IARC No component of this product present at levels greater than or equal to 0. Identified as probable, possible or confirmed human carcinogen by IARC.

OSHA No component of this product present at levels greater than or equal to 0 on OSHA's list of regulated carcinogens.

NTP No component of this product present at levels greater than or equal to 0. Identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Product:

Effects on fertility: Remarks: No data available

Effects on fetal development: Remarks: No data available

Repeated dose toxicity

Product:

Remarks: This information is not available.

Aspiration toxicity

Product:

Remarks: This information is not available.

Further information

Product:

Remarks: Information given is based on data on the components of the toxicology of similar products.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish: Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates: Remarks: No data available

Toxicity to algae/aquatic plants: Remarks: No data available

Toxicity to microorganisms: Remarks: No data available

Persistence and degradability

Product:

Biodegradability: Remarks: No data available

Physico-chemical removability: Remarks: No data available

Bioaccumulative potential

Product:

Bioaccumulation: Remarks: This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).
This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

Mobility in soil

Product:

Mobility: Remarks: No data available

Distribution among environmental compartments: Remarks: No data available

Other adverse effects

Product:

Ozone-Depletion Potential: Regulation: 40 CFR Protection of Environment;
Part 82 Protection of Stratospheric Ozone – CAA
Section 602 Class I Substances
Remarks: This product neither contains, nor was
manufactured with a Class I or Class II ODS as
defined by the U.S. Clean Air Act Section 602 (40
CFR 82, Subpt. A, App.A + B).

Additional ecological
information:

No information on ecology is available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues: The product should not be allowed to enter drains,
water courses or the soil.
Contaminated packaging: Packaging that is not properly emptied must be
disposed of as the unused product.
Dispose of waste product or used containers
according to local regulations.

14. TRANSPORT INFORMATION

International Regulations

UNRTDG: Not regulated as a dangerous good
IATA-DGR: Not regulated as a dangerous good
IMDG-Code: Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

National Regulations

49 CFR: Not regulated as a dangerous good
Special precautions for user: Not applicable

15. REGULATORY INFORMATION

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity
This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards:

No SARA Hazards

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.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B). This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

California Prop. 65

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

The components of this product are reported in the following inventories:

TSCA: All substances listed as active on the TSCA inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

16. OTHER INFORMATION**Further information****Full text of other abbreviations**

AIIC – Australian Inventory of Industrial Chemicals; ASTM – American Society for the Testing of Materials; bw – Body weight; CERCLA – Comprehensive Environmental Response, Compensation, and Liability Act; CMR – Carcinogen, Mutagen or Reproductive Toxicant; DIN – Standard of the German Institute for Standardization; DOT – Department of Transportation; DSL – Domestic Substances List (Canada); ECx – Concentration associated with x% response; EHS – Extremely Hazardous Substance; ELx – Loading rate associated with x% response; EmS – Emergency Schedule; ENCS – Existing and New Chemical Substances (Japan); ErCx – Concentration associated with x% growth rate response; ERG – Emergency Response Guide; GHS – Globally Harmonized System; GLP – Good Laboratory Practice; HMIS – Hazardous Materials Identification System; IARC – International Agency for Research on Cancer; IATA – International Air Transport Association; IBC – International Code for the Construction and Equipment of Ships carrying

Dangerous Chemicals in Bulk; IC50 – Half maximal inhibitory concentration; ICAO – International Civil Aviation Organization; IECSC – Inventory of Existing Chemical Substances in China; IMDG – International Maritime Dangerous Goods; IMO – International Maritime Organization; ISHL – Industrial Safety and Health Law (Japan); ISO – International Organization for Standardization; KECI – Korea Existing Chemicals Inventory; LC50 – Lethal Concentration to 50% of a test population; LD50 – Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL – International Convention for the Prevention of Pollution from Ships; MSHA – Mine Safety and Health Administration; n.o.s. – Not Otherwise Specified; NFPA – National Fire Protection Association; NO(A)EC – No Observed (Adverse) Effect Concentration; NO(A)EL – No Observed (Adverse) Effect Level; NOELR – No Observable Effect Loading Rate; NTP – National Toxicology Program; NZIoC – New Zealand Inventory of Chemicals; OECD – Organization for Economic Co-operation and Development; OPPTS – Office of Chemical Safety and Pollution Prevention; PBT – Persistent, Bioaccumulative and Toxic substance; PICCS – Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR – (Quantitative) Structure Activity Relationship; RCRA – Resource Conservation and Recovery Act; REACH – Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; RQ – Reportable Quantity; SADT – Self-Accelerating Decomposition Temperature; SARA – Superfund Amendments and Reauthorization Act; SDS – Safety Data Sheet; TCSI – Taiwan Chemical Substance Inventory; TECI – Thailand Existing Chemicals Inventory; TSCA – Toxic Substances Control Act (United States); UN – United Nations; UNRTDG – United Nations Recommendations on the Transport of Dangerous Goods; vPvB – Very Persistent and Very Bioaccumulative

Revision Date:

10/11/2024

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