SAFETY DATA SHEET



1. Identification

Product identifier SYLVATRAXX™ 3486

Other means of identification

SDS number 14182

Product Code 200000001968

Recommended use Industrial uses: Uses of substances as such or in preparations at industrial sites. Formulation

[mixing] of preparations and/or re-packaging (excluding alloys).

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information
Company Kraton Chemical, LLC
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Jacksonville, FL

Zip 32255-0850

Country USA

 Phone Number
 904-928-8700

 Alternate Phone Number
 800-526-5294

 Fax Number
 904-928-8780

Emergency-US CHEMTREC 800-424-9300

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Not classified.

OSHA defined hazards Combustible dust

Label elements

Hazard symbol None.

Signal word Warning

Hazard statement May form combustible dust concentrations in air.

Precautionary statement

Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly

closed. Ground/bond container and receiving equipment. Prevent dust accumulation to minimize

explosion hazard. Observe good industrial hygiene practices.

Response Take off contaminated clothing and wash before reuse. In case of fire: Use appropriate media to

extinguish.

Storage Store away from incompatible materials.

Disposal Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

3. Composition/information on ingredients

Substances

Chemical name	Common name and synonyms	CAS number	%
Rosin Ester		Proprietary	99-100

Material name: SYLVATRAXXTM 3486

SDS US

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4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Wash off with soap and water. Get medical attention if irritation develops and persists. Skin contact

Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists. Eye contact

Dusts may irritate the respiratory tract, skin and eyes.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

Treat symptomatically.

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 Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Apply extinguishing media

carefully to avoid creating airborne dust.

Unsuitable extinguishing

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

Specific hazards arising from the chemical

High concentration of airborne dust may form explosive mixture with air. Static charges generated by emptying package in or near flammable vapor may cause flash fire. During fire, gases hazardous to health may be formed. Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

equipment/instructions

In case of fire and/or explosion do not breathe fumes. Wear suitable protective equipment. Move containers from fire area if you can do so without risk.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

May form combustible dust concentrations in air. General fire hazards

6. Accidental release measures

Personal precautions. protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Use only non-sparking tools. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Stop the flow of material, if this is without risk.

Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Following product recovery, flush area with water.

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal.

Never return spills to original containers for re-use.

Environmental precautions

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

7. Handling and storage

Precautions for safe handling

Minimize dust generation and accumulation. Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Explosion-proof general and local exhaust ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices. Follow all SDS/label precautions even after container is emptied because they may retain product residues.

Conditions for safe storage, including any incompatibilities Keep containers tightly closed in a dry, cool and well-ventilated place. Store at ambient temperature and atmospheric pressure.

Material name: SYLVATRAXX™ 3486 SDS US 2/8

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-3 (29 CFR 1910.1000)

Additional components Value **Form** Type Dust **TWA** 5 ma/m3 Respirable fraction. Total dust. 15 mg/m3

No biological exposure limits noted for the ingredient(s). **Biological limit values**

Appropriate engineering

controls

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

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

Skin protection

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove Hand protection

supplier.

Other Wear suitable protective clothing.

If engineering controls do not maintain airborne concentrations below recommended exposure Respiratory protection

limits (where applicable) or to an acceptable level (in countries where exposure limits have not

been established), an approved respirator must be worn.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using, do not eat, drink or smoke. 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. Eye wash fountain and emergency showers are recommended.

9. Physical and chemical properties

Solid. **Appearance Physical state** Solid.

> **Form** Pastilles or Pellets. or Flakes.

Color Yellow. Mild. Odor

Odor threshold Not available. Not available. Melting point/freezing point Not available. Initial boiling point and boiling Not available.

range

> 392.0 °F (> 200.0 °C) Setaflash Closed Cup Flash point

0 (n-BuAc=1) estimated **Evaporation rate**

Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

Flammability limit - upper

(%)

Not available.

Not available. **Explosive limit - lower (%)** Explosive limit - upper (%) Not available.

Vapor pressure < 0.001 mm Hg at 20°C

Vapor density Not available. Relative density 1.08 at 25°C/25°C

Solubility(ies)

0.43 mg/l at 20°C; Data is for similar product. Solubility (water)

Material name: SYLVATRAXX™ 3486 14182 Version #: 4.0 Revision date: 10-07-2021 Issue date: 04-12-2016 Partition coefficient (n-octanol/water)

Not available.

Not available.

Auto-ignition temperature

392 °F (200 °C) estimated

Decomposition temperature

Not available.

Other information

Viscosity

Chemical family Rosin Ester

Density 1080.00 kg/m3 at 20°C

Partition coefficient

(oil/water)

> 1.5 at 35°C; Data is for similar product.

Percent volatile 0 % by weight estimated

Softening point 183.2 - 190.4 °F (84 - 88 °C) Ring & Ball

Weighted solids 100 %

10. Stability and reactivity

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

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Strong oxidizing agents. Keep away from heat, sparks and open flame. Contact with incompatible

materials. Minimize dust generation and accumulation.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

Upon decomposition this product emits acrid dense smoke with carbon dioxide, carbon monoxide,

water and other products of combustion.

11. Toxicological information

Information on likely routes of exposure

Inhalation Dust may irritate respiratory system.

Skin contact

No adverse effects due to skin contact are expected.

Eye contact

Direct contact with eyes may cause temporary irritation.

Rosin Ester Irritation Corrosion - Eye, No eye irritation.; Data is for similar

product.

Result: Negative

Species: New Zealand white rabbit

Organ: Eye

Observation Period: 7 days

Notes: OECD 405

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Dusts may irritate the respiratory tract, skin and eyes.

Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met.

Components Species Test Results

Rosin Ester

<u>Acute</u>

Dermal

LD50 Rat > 2000 mg/kg, 24 Hours

Sprague-Dawley rat > 2000 mg/kg At this dose no death occurred.; Data is for similar product.;

OECD 402

OLOD

Oral

LD50 Rat > 2000 mg/kg

Material name: SYLVATRAXX™ 3486

Components	Species	Test Results	
	Sprague-Dawley rat	> 2000 mg/kg At this dose no death occurred.; Data is for similar product.; OECD 401	
Subchronic			
Oral			
NOAEL	Sprague-Dawley rat	1757 mg/kg/day, 28 days Fertility; Developmental; Data is for similar product.; OECD 421	
NOEL	Sprague-Dawley rat	600 mg/kg/day, 90 days Data is for similar product.; OECD 408	

^{*} Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Corrosivity

Rosin Ester Irritation Corrosion - Skin, No skin irritation.; Data is for

similar product. Result: Negative

Species: New Zealand white rabbit

Organ: Skin Test Duration: 4 hr Observation Period: 72 hr Notes: OECD 404

Serious eye damage/eye irritation

Direct contact with eyes may cause temporary irritation.

Eye Contact

Rosin Ester Irritation Corrosion - Eye, No eye irritation.; Data is for similar

product.

Result: Negative

Species: New Zealand white rabbit

Organ: Eye

Observation Period: 7 days

Notes: OECD 405

Respiratory or skin sensitization

Respiratory sensitization Not available.

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

Skin sensitization

Rosin Ester Local Lymph Node Assay - Lowest Concentration Producing

Reaction, Not a skin sensitizer.

Result: Negative Species: Mouse Organ: Skin Notes: OECD 429

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Mutagenicity

Rosin Ester Germ Cell Mutagenicity: Ames

Result: Negative

Species: Salmonella typhimurium

Notes: OECD 471

Germ Cell Mutagenicity: Chromosome Abberation

Result: Negative Species: Hamster Organ: Ovary cells Notes: OECD 473

In vitro gene mutation study in mammalian cells

Result: Negative Species: Mouse Notes: OECD 476

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

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

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

Specific target organ toxicity -

Not available.

single exposure

Specific target organ toxicity -

Aspiration hazard

Not available.

repeated exposure

Not available.

12. Ecological information

The product is not classified as environmentally hazardous. However, this does not exclude the **Ecotoxicity**

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components		Species	Test Results
Rosin Ester			
Aquatic			
Algae	EL50	Algae	> 1000 mg/l, 72 hr Data is for similar product.; OECD 201
	NOEL	Algae	1000 mg/l, 72 hr Data is for similar product.; OECD 201
Crustacea	EC50	Daphnia	> 100 mg/l, 48 hr OECD 202
	NOEL	Daphnia	100 mg/l, 48 hr OECD 202
Fish	LL50	Fathead minnow (Pimephales promelas)	> 1000 mg/l, 96 hr At this dose no death occurred.; Data is for similar product.; OECD 203
	NOEL	Fathead minnow (Pimephales promelas)	1000 mg/l, 96 hr Data is for similar product.; OECD 203

^{*} Estimates for product may be based on additional component data not shown.

Persistence and degradability Not readily degradable.

Biodegradability

Percent degradation (Aerobic biodegradation)

Rosin Ester 0 % CO2 Evolution Test

> Result: Not readily biodegradable. Species: Activated sewage sludge

Test Duration: 28 d

Bioaccumulative potential Not available.

Partition coefficient n-octanol / water (log Kow)

Rosin Ester 3.97, at 20°C

Mobility in soil No data available.

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

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

13. Disposal considerations

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

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

Dispose in accordance with all applicable regulations. Local disposal regulations

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

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).

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

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

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14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to

Not applicable.

Annex II of MARPOL 73/78 and

the IBC Code

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

Toxic Substances Control Act (TSCA)

All components are either listed on the US EPA TSCA Inventory list and

designated as "active" or are exempt from listing.

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

Classified hazard

Combustible dust

Yes

categories

SARA 313 (TRI reporting)

Not regulated.

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)

Not regulated.

Safe Drinking Water Act

(SDWA)

Not regulated.

16. Other information, including date of preparation or last revision

 Issue date
 04-12-2016

 Revision date
 10-07-2021

Version # 4.0

Further information Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the

Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

NFPA ratings Health: 1

Flammability: 1 Instability: 0

NFPA ratings



Material name: SYLVATRAXX™ 3486

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