

1. Identification

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| Product identifier | SYLVARES™ TR A25L |
| Other means of identification | |
| SDS number | 13651 |
| Product Code | 200000001605 |
| 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 |
| Address | P.O. Box 550850 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

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|-----------------------------|-----------------|
| Physical hazards | Not classified. |
| Health hazards | Not classified. |
| OSHA defined hazards | Not classified. |

Label elements

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| Hazard symbol | None. |
| Signal word | None. |
| Hazard statement | The mixture does not meet the criteria for classification. |

Precautionary statement

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| Prevention | Observe good industrial hygiene practices. |
| Response | Wash hands after handling. |
| 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

Mixtures

| Chemical name | Common name and synonyms | CAS number | % |
|---|--------------------------|------------|--------|
| Terpenes and Terpenoids, turpentine-oil, a-pinene fraction, polymd. | | 70750-57-1 | 90-100 |

4. First-aid measures

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

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| Skin contact | Wash off with soap and water. Get medical attention if irritation develops and persists. |
| Eye contact | Rinse with water. Get medical attention if irritation develops and persists. |
| Ingestion | Rinse mouth. Get medical attention if symptoms occur. |
| Most important symptoms/effects, acute and delayed | Direct contact with eyes may cause temporary irritation. |
| 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 (CO ₂). |
| Unsuitable extinguishing media | Do not use water jet as an extinguisher, as this will spread the fire. |
| Specific hazards arising from the chemical | 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 | 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. |
| General fire hazards | No unusual fire or explosion hazards noted. |
| 6. Accidental release measures | |
| Personal precautions, protective equipment and emergency procedures | Keep unnecessary personnel away. |
| Methods and materials for containment and cleaning up | <p>Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.</p> <p>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.</p> <p>Never return spills to original containers for re-use.</p> |
| Environmental precautions | Avoid discharge into drains, water courses or onto the ground. |
| 7. Handling and storage | |
| Precautions for safe handling | Avoid prolonged exposure. 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 | Store in original tightly closed container. Keep containers closed when not in use. Store at ambient temperature and atmospheric pressure. |
| 8. Exposure controls/personal protection | |
| Biological limit values | No biological exposure limits noted for the ingredient(s). |
| Appropriate engineering controls | 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). |

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| Skin protection | |
| Hand protection | Wear appropriate chemical resistant gloves. When handling hot material, use heat resistant gloves. The 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 most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material. Wear suitable gloves tested to EN374. Recommended gloves include rubber, neoprene, nitrile or viton. For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes. For short-term/splash protection we recommend the same, but recognize that suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time maybe acceptable so long as appropriate maintenance and replacement regimes are followed. Glove thickness should be typically greater than 0.35 mm. This recommendation is advisory only. It may not be appropriate for all workplaces. It should not be construed as offering an approval for any specific use scenario. A hazard assessment should be conducted prior to use to ensure suitability of gloves for specific work environments and processes. |
| Other | Wear suitable protective clothing. |
| Respiratory protection | In case of insufficient ventilation, wear suitable respiratory equipment. |
| Thermal hazards | Wear appropriate thermal protective clothing, when necessary. |
| General hygiene considerations | 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

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| Appearance | Liquid. |
| Physical state | Liquid. |
| Form | Viscous. Paste. |
| Color | Yellow |
| Odor | Odorless. |
| Odor threshold | Not available. |
| pH | Not available. |
| Melting point/freezing point | Not available. |
| Initial boiling point and boiling range | Not available. |
| Flash point | 347.0 °F (175.0 °C) Cleveland Closed Cup EC Method A9 |
| Evaporation rate | 0 (n-BuAc=1) estimated |
| Flammability (solid, gas) | Not available. |
| Upper/lower flammability or explosive limits | |
| Explosive limit - lower (%) | Not available. |
| Explosive limit - lower (%) temperature | Not available. |
| Explosive limit - upper (%) | Not available. |
| Explosive limit - upper (%) temperature | Not available. |
| Vapor pressure | <0.001 mm Hg at 20°C |
| Vapor density | Not available. |
| Relative density | Not available. |
| Solubility(ies) | |
| Solubility (water) | Insoluble |
| Partition coefficient (n-octanol/water) | Not available. |
| Auto-ignition temperature | > 491 - < 509 °F (> 255 - < 265 °C) EC Method A15 |
| Decomposition temperature | Not available. |
| Viscosity | Not available. |
| Other information | |
| Chemical family | Polyterpene Resin |
| Density | 980.00 kg/m ³ at 20°C |

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| Explosive limit | Not available. |
| Percent volatile | <0.5 % |
| Softening point | > 71.6 - < 82.4 °F (> 22 - < 28 °C) Ring & Ball |
| Weighted solids | 100 % |

10. Stability and reactivity

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| Reactivity | The 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. Contact with incompatible materials. |
| 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

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| Inhalation | Prolonged inhalation may be harmful. |
| Skin contact | No adverse effects due to skin contact are expected. |
| Eye contact | Direct contact with eyes may cause temporary irritation. |
| Terpenes and Terpenoids, turpentine-oil, a-pinene fraction, polymd. | Irritation Corrosion - Eye, No eye irritation. Result: Negative Species: New Zealand white rabbit Organ: Eye Test Duration: 7 days Observation Period: 7 days |
| Ingestion | Expected to be a low ingestion hazard. |

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| Symptoms related to the physical, chemical and toxicological characteristics | Direct contact with eyes may cause temporary irritation. |
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Information on toxicological effects

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

| Components | Species | Test Results |
|--|--------------------------|---|
| Terpenes and Terpenoids, turpentine-oil, a-pinene fraction, polymd. (CAS 70750-57-1) | | |
| Acute | | |
| Dermal | | |
| LD50 | New Zealand white rabbit | > 2000 mg/kg, 14 days At this dose no death occurred. |
| | Rabbit | >= 5000 mg/kg |
| Oral | | |
| LD50 | Rat | 5000 mg/kg |
| | Sprague-Dawley rat | > 5000 mg/kg, 15 days At this dose no death occurred. |

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

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

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| Terpenes and Terpenoids, turpentine-oil, a-pinene fraction, polymd. | In Vitro Skin Corrosion: Human Skin Model Test, Non-irritating to the skin.; OECD 431 Result: Negative Organ: Skin Test Duration: 60 min Observation Period: 60 min Notes: OECD 431, EC Method B.40 |
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| Serious eye damage/eye irritation | Direct contact with eyes may cause temporary irritation. |
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Eye Contact

Terpenes and Terpenoids, turpentine-oil, a-pinene fraction, polymd.

Irritation Corrosion - Eye, No eye irritation.
Result: Negative
Species: New Zealand white rabbit
Organ: Eye
Test Duration: 7 days
Observation Period: 7 days

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization Prolonged skin contact may cause temporary irritation.

Skin sensitization

Terpenes and Terpenoids, turpentine-oil, a-pinene fraction, polymd.

Local Lymph Node Assay, Not a skin sensitizer.; OECD 429
Result: Negative
Species: Mouse
Notes: OECD 429, EC Method B42

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Mutagenicity

Terpenes and Terpenoids, turpentine-oil, a-pinene fraction, polymd.

Germ Cell Mutagenicity: Ames
Result: Negative
Species: Salmonella typhimurium
Notes: OECD 471

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)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

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

Specific target organ toxicity - single exposure Not classified.

Specific target organ toxicity - repeated exposure Not classified.

Aspiration hazard Not an aspiration hazard.

12. Ecological information

Ecotoxicity May cause long lasting harmful effects to aquatic life.

Components

Species

Test Results

Terpenes and Terpenoids, turpentine-oil, a-pinene fraction, polymd. (CAS 70750-57-1)

| | | |
|------|---|-------------------------------|
| EC50 | Activated sewage sludge | > 1000 mg/l, 3 Hours OECD 209 |
| EL50 | Algae (Pseudokirchneriella subcapitata) | > 100 mg/l, 72 Hours OECD 201 |
| NOEL | Algae (Pseudokirchneriella subcapitata) | 100 mg/l, 72 Hours OECD 201 |

Aquatic

Acute

Crustacea

| | | |
|------|---------------|-------------------------------|
| EL50 | Daphnia magna | > 100 mg/l, 48 Hours OECD 202 |
| NOEL | Daphnia magna | 100 mg/l, 48 Hours OECD 202 |

Fish

| | | |
|------|---------------------|-------------------------------|
| LL50 | Oncorhynchus mykiss | > 100 mg/l, 96 Hours OECD 203 |
| NOEL | Oncorhynchus mykiss | 100 mg/l, 96 Hours 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)

Terpenes and Terpenoids, turpentine-oil, a-pinene fraction, polymd.

8 % OECD 301F
Result: Not readily biodegradable.
Species: Activated sludge of a predominantly domestic sewage
Test Duration: 28 days

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Terpenes and Terpenoids, turpentine-oil, a-pinene fraction, > 4.04
polymd.

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.

Local disposal regulations Dispose in accordance with all applicable 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).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

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 Annex II of MARPOL 73/78 and the IBC Code Not available.

15. Regulatory information

US federal regulations This product is not known to be 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 No

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 03-16-2015
Revision date 07-12-2023
Version # 8.1
NFPA ratings Health: 1
Flammability: 1
Instability: 0

NFPA ratings



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Revision information

Product and Company Identification: Product and Company Identification
Other information, including date of preparation or last revision: Disclaimer
HazReg Data: Pacific Rim