Safety Data Sheet · OSHA HCS 2024

A-A-59601E Type III Technical Grade

Technical

Standard	Revised	Emergency
OSHA HCS 2024 · GHS Rev. 7	2026-11-12	Chemtel 1-800-255-3924 (24/7)

1 Identification

Product Identifier	A-A-59601E Type III Technical Grade
Grade	Technical
CAS Number	64742-47-8
Chemical Formula	Mixture
Molecular Weight	Varies g/mol
Manufacturer	Alliance Chemical 204 South Edmond Street, Taylor, TX 76574
Emergency Phone	Chemtel 1-800-255-3924 (24/7)
Synonyms	Cleaning compound, solvent (A-A-59601E Type III); high-flash hydrotreated petroleum distillate
Recommended Use	Low-hazard cleaning and degreasing solvent for equipment and parts (Commercial Item Description A-A-59601E, Type III).
Restrictions on Use	For industrial and professional use. Aspiration hazard: if swallowed, do NOT induce vomiting. Use with adequate ventilation.

2 Hazard Identification



Irritant / harmful



Health hazard

Classification	Aspiration hazard, Category 1 Specific target organ toxicity, single exposure, Category 3 (narcotic effects)
Signal Word	**Danger**
Hazard Statements	H304 May be fatal if swallowed and enters airways H336 May cause drowsiness or dizziness

Precautionary Statements

P260 Do not breathe dust, fume, gas, mist, vapors or spray.
P264 Wash hands and face thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves, protective clothing, and eye/face protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTER or doctor if you feel unwell.
P331 Do NOT induce vomiting.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents and container in accordance with local, regional, national, and international regulations.

Classification, hazard (H) and precautionary (P) statements and pictograms per OSHA HCS 2024 (29 CFR 1910.1200, Appendices A–C), aligned with GHS Rev. 7.

3 Composition / Information on Ingredients

Component	CAS No.	Formula	Concentration
Distillates (petroleum), hydrotreated light	64742-47-8	Mixture	70-100% (w/w)
Alkanes, C14-16	90622-46-1	Mixture	20-30% (w/w)

Concentrations are nominal; lot-specific values appear on the Certificate of Analysis. Components not contributing to classification are omitted.

4 First-Aid Measures

Eyes
Rinse with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention immediately.

Skin
Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing. Wash with soap. Get medical attention immediately.

Inhalation
Move person to fresh air and keep comfortable for breathing. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately.

Ingestion
Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention immediately.

Most Important Symptoms and Effects
Aspiration into the lungs, for example during vomiting, may cause chemical pneumonitis, which can be fatal.

Inhalation of vapors may cause drowsiness, dizziness, headache and nausea.

Immediate Medical Attention and Special Treatment
Aspiration hazard: if swallowed, do not induce vomiting and get medical attention immediately. Note to physician: observe for chemical pneumonitis; protect the airway before any gastric procedure.

5 Fire-Fighting Measures

Suitable Extinguishing Media
Use water spray, alcohol-resistant foam, dry chemical, or CO2. Use measures appropriate to local circumstances.

Unsuitable Extinguishing Media
Do not use a solid water stream as it may scatter and spread fire.

Specific Hazards Arising from the Chemical
Containers may rupture when heated.

Protective Equipment
Wear self-contained breathing apparatus and full protective clothing.

Hazardous Combustion Products
Carbon monoxide, carbon dioxide and unburned hydrocarbons on combustion.

6 Accidental Release Measures

Personal Precautions
Use PPE as described in Section 8. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental Precautions	Prevent leakage or spillage from entering drains, sewers, or waterways.
Containment & Cleanup	Absorb with inert material. Collect in appropriate waste container. Dispose per applicable regulations.

7 Handling and Storage

Safe Handling	Use with adequate ventilation. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Keep container closed when not in use.
Safe Storage	Store in a cool, dry, well-ventilated area. Keep away from incompatible materials (see Section 10). Keep containers tightly closed.
Specific Storage Precautions	Keep closed in a cool, well-ventilated place away from oxidizers and heat. Store locked up.

8 Exposure Controls / Personal Protection

Occupational Exposure Limits

Limit	Value
OSHA PEL	500 ppm TWA
NIOSH REL	350 mg/m³ TWA / 1800 mg/m³ Ceiling (15 min)
IDLH	20000 mg/m³

Engineering Controls	Use adequate ventilation. Provide eyewash stations and quick-drench showers accessible to areas of use.
Eye/Face Protection	Wear chemical safety goggles or face shield.
Skin Protection	Wear chemical-resistant gloves and protective clothing.
Respiratory Protection	Use NIOSH-approved respirator if exposure limits are exceeded or irritation occurs.

Exposure limits sourced from NIOSH Pocket Guide, OSHA 29 CFR 1910.1000 and ACGIH TLVs.

9 Physical & Chemical Properties

Appearance	Pale yellow liquid
Odor	Hydrocarbon-like
Odor Threshold	No data available
pH	No data available
Melting Point / Freezing Point	-22 °C (-8 °F), freezing point
Boiling Point	242–276 °C (468–529 °F) distillation range
Flash Point	101 °C (213.8 °F), closed cup (ASTM D56)
Evaporation Rate	No data available
Flammability (solid, gas)	No data available
Upper/Lower Flammability or Explosive Limits	LEL 0.5% / UEL 4.7–7.0% (v/v in air)
Vapor Pressure	< 0.1 mmHg at 20 °C
Vapor Density	No data available

Relative Density	0.81 at 15.6 °C (water = 1)
Solubility	Negligible in water
Partition Coefficient (n-octanol/water)	No data available
Auto-ignition Temperature	220–224 °C (428–435 °F)
Decomposition Temperature	No data available
Viscosity	2.5–3.8 mm^2/s at 20–40 °C
Particle Characteristics	Not applicable

Values shown reflect product-specific canonical data. Lot-specific ranges may vary; see the Certificate of Analysis for the shipped lot.

10 Stability and Reactivity

Reactivity	Not reactive under normal conditions of use and storage.
Chemical Stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	None under normal processing conditions.
Conditions to Avoid	Heating above the flash point (about 100 °C), open flame and strong oxidizers.
Incompatible Materials	Strong oxidizing agents.
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide and unburned hydrocarbons on combustion.

11 Toxicological Information

See Section 2 for GHS hazard classification.

Likely Routes of Exposure	Inhalation, skin contact, eye contact, ingestion.
Symptoms	Aspiration into the lungs, for example during vomiting, may cause chemical pneumonitis, which can be fatal. Inhalation of vapors may cause drowsiness, dizziness, headache and nausea.
Delayed and Chronic Effects	No delayed or chronic effects identified beyond the classification in Section 2.
Numerical Measures of Toxicity	No data available

Carcinogen Classification

Agency	Status
IARC	Not listed as carcinogen.
NTP	Not listed as carcinogen.
OSHA	Not listed as carcinogen.

12 Ecological Information

Ecotoxicity	Algae ErC50: 3.7 mg/L (72 h, Selenastrum capricornutum — WAF loading rate; IL50 (range 3.7–8.3 mg/L)); Daphnia EC50: 1.4 mg/L (48 h, Daphnia magna — WAF loading rate; conservative bound (range 1.4–21 mg/L)); Fish LC50: 18 mg/L (96 h, Oncorhynchus mykiss — WAF loading rate; CONCAWE kerosine read-across (range 18–25 mg/L))

Persistence & Degradability	UVCB hydrocarbon stream; constituents inherently/readily biodegradable but contains poorly water-soluble components. Toxicity reported as WAF loading rates.
Bioaccumulative Potential	Not Available
Mobility in Soil	Not Available

13 Disposal Considerations

Dispose of contents/container in accordance with applicable federal, state, and local regulations. Do not dispose of into drains or waterways.

EPA RCRA Waste Codes	Not ignitable as supplied (flash point above 60 °C), so not D001; not a listed waste. Used solvent may pick up contaminants — test before disposal.

14 Transport Information

Not regulated for transport under US DOT 49 CFR Subchapter C, IMDG, or IATA DGR.

Additional US DOT Requirements	Not regulated for transport at any package size: the flash point (109–114 °C) is above the 93 °C combustible-liquid ceiling (49 CFR 173.120(b)).

15 Regulatory Information

Inventory / List	Status
California Proposition 65	Not listed
US EPA TSCA Active Inventory	Listed
EPCRA SARA 313 (TRI)	Not listed
CERCLA Reportable Quantity (RQ)	Not a CERCLA hazardous substance (petroleum exclusion, CERCLA §101(14)); no RQ.

SARA 311/312 hazard categories correspond to the GHS classification in Section 2. Data retrieved as of: California Proposition 65 2026-11-02; US EPA TSCA Active Inventory 2026-11-02; EPCRA SARA 313 (TRI) 2026-11-02.

16 Other Information

Revision Date	2026-11-12
Format	16-section format per OSHA HCS 2024 (29 CFR 1910.1200, Appendix D), aligned with GHS Rev. 7.

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