

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Trade name : Sunshield Clear Polyester Topcoat
CAS-No. : mixture
Product code : 904-061
Formula : N/A
Other means of identification : Unsaturated Polyester Resin Product

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Coatings

1.3. Supplier

Dura Technologies, Inc.
2720 South Willow Avenue #A
Bloomington, CA 92316

909-546-1162
ChemTrec US: 800.424.9300
ChemTrec Int: +1 70 3527 3887

1.4. Emergency telephone number

Emergency number : ChemTrec US: 800.424.9300 Int: +1 70 3527 3887
CHEMTREC: 1-800-424-9300

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

| | | |
|---|------|--|
| Flammable liquids Category 2 | H225 | Highly flammable liquid and vapor |
| Skin corrosion/irritation Category 2 | H315 | Causes skin irritation |
| Serious eye damage/eye irritation Category 2 | H319 | Causes serious eye irritation |
| Skin sensitization, Category 1 | H317 | May cause an allergic skin reaction |
| Carcinogenicity Category 2 | H351 | Suspected of causing cancer |
| Specific target organ toxicity (repeated exposure) Category 1 | H372 | Causes damage to organs through prolonged or repeated exposure |

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Danger
Hazard statements (GHS US) : H225 - Highly flammable liquid and vapor
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation

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Precautionary statements (GHS US)

H351 - Suspected of causing cancer
H372 - Causes damage to organs through prolonged or repeated exposure
: P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P210 - Keep away from heat, hot surfaces, 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, lighting, ventilating equipment.
P242 - Use only non-sparking tools.
P243 - Take precautionary measures against static discharge.
P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 - Wash exposed area. thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P272 - Contaminated work clothing must not be allowed out of the workplace.
P280 - Wear eye protection, protective clothing, protective gloves.
P302+P352 - If on skin: Wash with plenty of water.
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 - If exposed or concerned: Get medical advice/attention.
P314 - Get medical advice/attention if you feel unwell.
P321 - Specific treatment (see none listed. on this label).
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P363 - Wash contaminated clothing before reuse.
P370+P378 - In case of fire: Use carbon dioxide (CO₂), dry chemical powder, foam to extinguish.
P403+P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
P501 - Dispose of contents/container to in accordance with local, state, and federal regulations..

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

| Name | Product identifier | % | GHS US classification |
|---------------------------|---------------------|--------|---|
| styrene, inhibited | CAS-No.: 100-42-5 | ≤ 28.5 | Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 2, H351 STOT RE 1, H372 Aquatic Acute 2, H401 |
| methyl ethyl ketone | CAS-No.: 78-93-3 | ≤ 5 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 |
| 1,6-hexanediol diacrylate | CAS-No.: 13048-33-4 | ≤ 5 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 |

Full text of hazard classes and H-statements : see section 16

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 | : Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. |
| First-aid measures after skin contact | : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: wash thoroughly for five minutes. seek medical attention. Get medical advice/attention. Specific treatment (see seek medical attention. on this label). |
| First-aid measures after eye contact | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: SEEK IMMEDIATE MEDICAL ATTENTION. Get medical advice/attention. |
| First-aid measures after ingestion | : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a poison center/doctor/physician if you feel unwell. |

4.2. Most important symptoms and effects (acute and delayed)

| | |
|---|--|
| Potential Adverse human health effects and symptoms | : Harmful if inhaled. |
| Symptoms/effects | : May cause genetic defects (avoid skin contact and inhalation.). May cause cancer (avoid skin contact and inhalation.). |
| Symptoms/effects after inhalation | : Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled. |
| Symptoms/effects after skin contact | : Causes skin irritation. |
| Symptoms/effects after eye contact | : Causes serious eye irritation. |

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

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SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Sand. Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Fire hazard : Highly flammable liquid and vapor.
Explosion hazard : May form flammable/explosive vapor-air mixture.
Reactivity in case of fire : No reactivity hazard other than the effects described in sub-sections below.
Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.

6.1.1. For non-emergency personnel

Protective equipment : Gloves. Protective goggles. Protective clothing.
Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures : Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Dam up the liquid spill. Contain released product, pump into suitable containers.
Methods for cleaning up : Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapors are flammable.

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| | |
|-------------------------------|---|
| Precautions for safe handling | : Wear personal protective equipment. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No open flames. No smoking. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Avoid breathing DUST, FUMES, MIST, OR VAPORS. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Eliminate all ignition sources if safe to do so. |
| Hygiene measures | : Wash HANDS thoroughly after handling. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. |

7.2. Conditions for safe storage, including any incompatibilities

| | |
|------------------------|---|
| Technical measures | : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. |
| Storage conditions | : Keep only in the original container in a cool, well ventilated place away from : HEAT SPARKS OR OPEN FLAMES. Keep in fireproof place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. |
| Incompatible products | : Strong bases. Strong acids. |
| Incompatible materials | : Sources of ignition. Direct sunlight. Heat sources. |

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Sunshield Clear Polyester Topcoat (mixture)

No additional information available

styrene, inhibited (100-42-5)

USA - ACGIH - Occupational Exposure Limits

| | |
|----------------------|--------|
| ACGIH OEL TWA [ppm] | 20 ppm |
| ACGIH OEL STEL [ppm] | 40 ppm |

methyl ethyl ketone (78-93-3)

USA - ACGIH - Occupational Exposure Limits

| | |
|----------------------|---------|
| ACGIH OEL TWA [ppm] | 200 ppm |
| ACGIH OEL STEL [ppm] | 300 ppm |

1,6-hexanediol diacrylate (13048-33-4)

No additional information available

8.2. Appropriate engineering controls

| | |
|----------------------------------|---|
| Appropriate engineering controls | : Ensure exposure is below occupational exposure limits (where available). Ensure good ventilation of the work station. |
| Environmental exposure controls | : Avoid release to the environment. |

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear protective gloves.

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| |
|--|
| Eye protection: |
| Chemical goggles or safety glasses. Safety glasses |
| Skin and body protection: |
| Wear suitable protective clothing |
| Respiratory protection: |
| Wear appropriate mask |

Personal protective equipment symbol(s):



Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|--------------------------------------|
| Physical state | : Liquid |
| Color | : clear |
| Odor | : characteristic |
| Odor threshold | : No data available |
| pH | : No data available |
| Melting point | : Not applicable |
| Freezing point | : No data available |
| Boiling point | : ≥ 172 °F |
| Flash point | : ≥ 16 °F |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Flammability (solid, gas) | : Highly flammable liquid and vapor. |
| Vapor pressure | : No data available |
| Relative vapor density at 20 °C | : No data available |
| Relative density | : ≈ 1.07 |
| Specific gravity / density | : ≈ 1.07 kg/l |
| Solubility | : No data available |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosion limits | : No data available |
| Explosive properties | : No data available |
| Oxidizing properties | : No data available |

9.2. Other information

VOC content : ≤ 355 g/l As percentage VOC is 33.4%, VOC is based on 100 % evaporation of monomers

SECTION 10: Stability and reactivity

10.1. Reactivity

No reactivity hazard other than the effects described in sub-sections below.

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10.2. Chemical stability

Polymerization can result in formation of solid deposits, even in vapour space. Not established. Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. May release flammable gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

styrene, inhibited (100-42-5)

| | |
|-----------------------------|--|
| LD50 oral rat | 5000 mg/kg (Rat; Literature study; >6000 mg/kg bodyweight; Rat; Weight of evidence) |
| LD50 oral | > 6000 mg/kg body weight (Hamster, Male, Weight of evidence, Oral) |
| LD50 dermal rat | > 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal) |
| LD50 dermal rabbit | 5010 mg/kg (Rabbit; Literature study) |
| LC50 Inhalation - Rat | 11.8 mg/l air (4 h, Rat, Inconclusive, insufficient data, Inhalation (vapours)) |
| LC50 Inhalation - Rat [ppm] | 2770 ppm/4h (Rat; Literature study) |
| ATE US (oral) | 5000 mg/kg body weight |
| ATE US (dermal) | 5010 mg/kg body weight |
| ATE US (gases) | 2770 ppmV/4h |
| ATE US (vapors) | 11 mg/l/4h |
| ATE US (dust, mist) | 1.5 mg/l/4h |

methyl ethyl ketone (78-93-3)

| | |
|--------------------|---|
| LD50 oral rat | 2193 mg/kg body weight (Equivalent or similar to OECD 423, Rat, Male / female, Read-across, Oral) |
| LD50 dermal rabbit | > 10 ml/kg (Equivalent or similar to OECD 402, 24 h, Rabbit, Male, Experimental value, Dermal) |
| ATE US (oral) | 2193 mg/kg body weight |

Skin corrosion/irritation : Causes skin irritation.

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| styrene, inhibited (100-42-5) | |
|---|--|
| pH | Not applicable |
| Serious eye damage/irritation | : Causes serious eye irritation. |
| styrene, inhibited (100-42-5) | |
| pH | Not applicable |
| Respiratory or skin sensitization | : May cause an allergic skin reaction. |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Suspected of causing cancer. |
| styrene, inhibited (100-42-5) | |
| IARC group | 2B - Possibly carcinogenic to humans |
| National Toxicology Program (NTP) Status | Reasonably anticipated to be Human Carcinogen |
| Reproductive toxicity | : Not classified |
| Specific target organ toxicity – single exposure | : Not classified |
| methyl ethyl ketone (78-93-3) | |
| Specific target organ toxicity – single exposure | May cause drowsiness or dizziness. |
| Specific target organ toxicity – repeated exposure | : Causes damage to organs through prolonged or repeated exposure. |
| styrene, inhibited (100-42-5) | |
| Specific target organ toxicity – repeated exposure | Causes damage to organs through prolonged or repeated exposure. |
| Aspiration hazard | : Not classified |
| Viscosity, kinematic | : No data available |
| styrene, inhibited (100-42-5) | |
| Viscosity, kinematic | 0.8 mm ² /s |
| methyl ethyl ketone (78-93-3) | |
| Viscosity, kinematic | 0.494 mm ² /s |
| Potential Adverse human health effects and symptoms | : Harmful if inhaled. |
| Symptoms/effects | : May cause genetic defects (avoid skin contact and inhalation.). May cause cancer (avoid skin contact and inhalation.). |
| Symptoms/effects after inhalation | : Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled. |
| Symptoms/effects after skin contact | : Causes skin irritation. |
| Symptoms/effects after eye contact | : Causes serious eye irritation. |
| SECTION 12: Ecological information | |
| 12.1. Toxicity | |
| Ecology - general | : Dangerous for the environment. Harmful to aquatic life. |
| styrene, inhibited (100-42-5) | |
| LC50 - Fish [1] | 10 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value, GLP) |
| EC50 - Crustacea [1] | 4.7 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Flow-through system, Fresh water, Experimental value, GLP) |
| ErC50 algae | 4.9 mg/l (EPA OTS 797.1050, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP) |

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| methyl ethyl ketone (78-93-3) | |
|--------------------------------------|--|
| LC50 - Fish [1] | 2993 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Pimephales promelas, Static system, Fresh water, Experimental value, GLP) |
| EC50 - Crustacea [1] | 308 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP) |
| ErC50 algae | 1972 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP) |

12.2. Persistence and degradability

| Sunshield Clear Polyester Topcoat (mixture) | |
|--|--|
| Persistence and degradability | Not established. |
| styrene, inhibited (100-42-5) | |
| Persistence and degradability | Biodegradable in the soil. Readily biodegradable in water. |
| Chemical oxygen demand (COD) | 2.8 g O ₂ /g substance |
| ThOD | 3.07 g O ₂ /g substance |
| BOD (% of ThOD) | 0.42 (Literature study) |

| methyl ethyl ketone (78-93-3) | |
|--------------------------------------|---|
| Persistence and degradability | Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Not established. |
| Biochemical oxygen demand (BOD) | 2.03 g O ₂ /g substance |
| Chemical oxygen demand (COD) | 2.31 g O ₂ /g substance |
| ThOD | 2.44 g O ₂ /g substance |

| 1,6-hexanediol diacrylate (13048-33-4) | |
|---|---------------------------|
| Persistence and degradability | Inherently biodegradable. |

12.3. Bioaccumulative potential

| Sunshield Clear Polyester Topcoat (mixture) | |
|--|---|
| Bioaccumulative potential | Not established. |
| styrene, inhibited (100-42-5) | |
| BCF - Fish [1] | 35.5 (Carassius auratus, Literature study) |
| Partition coefficient n-octanol/water (Log Pow) | 2.96 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |

| methyl ethyl ketone (78-93-3) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 0.3 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 40 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). Not established. |

| 1,6-hexanediol diacrylate (13048-33-4) | |
|---|------------------------------------|
| Bioaccumulative potential | No bioaccumulation data available. |

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12.4. Mobility in soil

styrene, inhibited (100-42-5)

| | |
|--|---------------------------------------|
| Surface tension | 0.032 N/m (20 °C) |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 2.55 (log Koc, Estimated value) |
| Ecology - soil | Low potential for adsorption in soil. |

methyl ethyl ketone (78-93-3)

| | |
|--|--|
| Surface tension | 0.024 N/m (20 °C) |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 1.53 (log Koc, Calculated value) |
| Ecology - soil | Highly mobile in soil. Slightly harmful to plants. |

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Regional legislation (waste) : Disposal must be done according to official regulations.
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations : Do not discharge into drains.
Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to approved disposal site..
Additional information : Handle empty containers with care because residual vapors are flammable.
Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

14.1. UN number

DOT NA No : UN1866
UN-No. (TDG) : UN1866
UN-No. (IMDG) : 1866
UN-No. (IATA) : 1866

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Resin solution
Proper Shipping Name (TDG) : RESIN SOLUTION
Proper Shipping Name (IMDG) : RESIN SOLUTION
Proper Shipping Name (IATA) : Resin solution

14.3. Transport hazard class(es)

DOT
Transport hazard class(es) (DOT) : 3
Hazard labels (DOT) : 3

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TDG

Transport hazard class(es) (TDG) : 3
Hazard labels (TDG) : 3



IMDG

Transport hazard class(es) (IMDG) : 3
Hazard labels (IMDG) : 3



IATA

Transport hazard class(es) (IATA) : 3
Hazard labels (IATA) : 3



14.4. Packing group

Packing group (DOT) : II
Packing group (TDG) : II
Packing group (IMDG) : II
Packing group (IATA) : II

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

DOT

UN-No.(DOT) : UN1866

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DOT Special Provisions (49 CFR 172.102) : 149 - When transported as a limited quantity or a consumer commodity, the maximum net capacity specified in 173.150(b)(2) of this subchapter for inner packaging may be increased to 5 L (1.3 gallons).
383 - Packages containing toy plastic or paper caps for toy pistols described as "UN0349, Articles, explosive, n.o.s. (Toy caps), 1.4S" or "NA0337, Toy caps, 1.4S" are not subject to the subpart E (labeling) requirements of this part when offered for transportation by motor vehicle, rail freight, cargo vessel, and cargo aircraft and, notwithstanding the packing method assigned in §173.62 of this subchapter, in conformance with the following conditions:
B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks.
IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.
T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3)
TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a (tr - tf)$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.
TP8 - A portable tank having a minimum test pressure of 1.5 bar (150 kPa) may be used when the flash point of the hazardous material transported is greater than 0 C (32 F).

DOT Packaging Exceptions (49 CFR 173.xxx) : 150
DOT Packaging Non Bulk (49 CFR 173.xxx) : 173
DOT Packaging Bulk (49 CFR 173.xxx) : 242
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 5 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 60 L
DOT Vessel Stowage Location

: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.

TDG

UN-No. (TDG) : UN1866
Explosive Limit and Limited Quantity Index : 5 L
Excepted quantities (TDG) : E2
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index : 5 L
Emergency Response Guide (ERG) Number : 127

IMDG

Packing instructions (IMDG) : P001
Packing provisions (IMDG) : PP1
IBC packing instructions (IMDG) : IBC02
Tank instructions (IMDG) : T4
Tank special provisions (IMDG) : TP1, TP8
EmS-No. (Fire) : F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS
EmS-No. (Spillage) : S-E - SPILLAGE SCHEDULE Echo - FLAMMABLE LIQUIDS, FLOATING ON WATER
Stowage category (IMDG) : B
Properties and observations (IMDG) : Miscibility with water depends upon the composition.

IATA

PCA Excepted quantities (IATA) : E2
PCA Limited quantities (IATA) : Y341
PCA limited quantity max net quantity (IATA) : 1L
PCA packing instructions (IATA) : 353
PCA max net quantity (IATA) : 5L
CAO packing instructions (IATA) : 364
CAO max net quantity (IATA) : 60L

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Special provision (IATA) : A3
ERG code (IATA) : 3L

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

| Name | CAS-No. | Listing | Commercial status | Flags |
|---------------------------|------------|---------|-------------------|-------|
| styrene, inhibited | 100-42-5 | Present | Active | |
| methyl ethyl ketone | 78-93-3 | Present | Active | |
| 1,6-hexanediol diacrylate | 13048-33-4 | Present | Active | |

styrene, inhibited (100-42-5)

Subject to reporting requirements of United States SARA Section 313
Listed on EPA Hazardous Air Pollutant (HAPS)

| | |
|-------------------------------------|--|
| CERCLA RQ | 1000 lb |
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard Reactive hazard Fire hazard Delayed (chronic) health hazard |

methyl ethyl ketone (78-93-3)

Not subject to reporting requirements of the United States SARA Section 313
Listed on EPA Hazardous Air Pollutant (HAPS)

| | |
|-----------|---------|
| CERCLA RQ | 5000 lb |
|-----------|---------|

15.2. International regulations

CANADA

styrene, inhibited (100-42-5)

Listed on the Canadian DSL (Domestic Substances List)

methyl ethyl ketone (78-93-3)

Listed on the Canadian DSL (Domestic Substances List)

1,6-hexanediol diacrylate (13048-33-4)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

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National regulations

styrene, inhibited (100-42-5)

Listed on IARC (International Agency for Research on Cancer)
Listed as carcinogen on NTP (National Toxicology Program)

15.3. US State regulations

styrene, inhibited (100-42-5)

| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) | Maximum allowable dose level (MADL) |
|---|---|---|---|----------------------------------|-------------------------------------|
| Yes | No | No | No | 27 µg/day | |

| Component | State or local regulations |
|------------------------------|---|
| styrene, inhibited(100-42-5) | U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List |
| methyl ethyl ketone(78-93-3) | U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List |

SECTION 16: Other information

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Revision date : 6/6/2024

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of H-phrases

| | |
|------|--|
| H225 | Highly flammable liquid and vapor |
| H226 | Flammable liquid and vapor |
| H315 | Causes skin irritation |
| H317 | May cause an allergic skin reaction |
| H319 | Causes serious eye irritation |
| H332 | Harmful if inhaled |
| H336 | May cause drowsiness or dizziness |
| H351 | Suspected of causing cancer |
| H372 | Causes damage to organs through prolonged or repeated exposure |
| H401 | Toxic to aquatic life |

NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

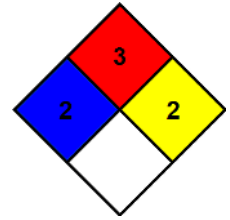
NFPA fire hazard : 3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions.

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NFPA reactivity : 2 - Materials that readily undergo violent chemical change at elevated temperatures and pressures.



Hazard Rating

Health

: 2 Moderate Hazard - Temporary or minor injury may occur

Flammability

: 3 Serious Hazard - Materials capable of ignition under almost all normal temperature conditions. Includes flammable liquids with flash points below 73 F and boiling points above 100 F. as well as liquids with flash points between 73 F and 100 F. (Classes IB IC)

Physical

: 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.

Personal protection

: H - Splash goggles, Gloves, Synthetic apron, Vapor respirator

Safety Data Sheet (SDS), USA