Product Safety Assessment

DIAMOSOLV™ 323


Select a Topic:
Names
Product Overview
Manufacture of Product
Product Description
Product Uses
Exposure Potential
Health Information
Environmental Information
Physical Hazard Information
Regulatory Information
Additional Information
References

Names
- CAS No. 106-33-2
- Dodecanoic acid, ethyl ester
- DIAMOSOLV™ 323
- Ethyl laurate

Product Overview
- DIAMOSOLV™ 323 is a bio-based solvent. It is a clear, colorless liquid with a mild, fruity/floral odor.¹ For further details, see Product Description.
- DIAMOSOLV 323 is used for household and industrial cleaning formulations where high performance and ultra-low volatile organic compound (VOC) content are desired.² For further details, see Product Uses.
- DIAMOSOLV 323 is not directly sold for consumer use; however, consumers may be exposed to cleaning formulations that contain this product. Always read the product label prior to use and carefully follow instructions. Worker exposure to DIAMOSOLV 323 is possible during formulation, transport, and use. Exposure is minimized by engineering controls and personal protective equipment.¹,² For further details, see Exposure Potential.
- Eye contact with DIAMOSOLV 323 can cause slight irritation; corneal damage is unlikely. Brief skin contact may cause moderate irritation with local redness. Prolonged skin contact is unlikely to result in absorption of harmful amounts. At room temperature, exposure to vapor is minimal due to low volatility; single exposure is not likely to be hazardous. This product has very low toxicity if swallowed. Harmful effects are not anticipated from swallowing small amounts.¹ For further details, see Health Information and request the relevant Safety Data Sheet from the Dow Customer Information Group.
- DIAMOSOLV 323 is readily biodegradable. This product has low solubility in water and very low volatility. DIAMOSOLV 323 is considered highly toxic to aquatic organisms on an acute basis (LC₅₀/EC₅₀ between 0.1 and 1.0 mg/L in the most sensitive species tested). Because this product readily biodegrades, it is unlikely to persist in the environment or food chain, or following wastewater treatment.¹ For further details, see Environmental Information.
- DIAMOSOLV 323 is stable under recommended storage conditions and normal use conditions. Exposure to elevated temperatures can cause this product to decompose. Avoid contact with oxidizing materials.¹ For further details, see Physical Hazard Information.

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**Product Safety Assessment: DIAMOSOLV™ 323**

**Manufacture of Product**
- **Location** – DIAMOSOLV™ 323 is manufactured at facilities located in the United States.
- **Process** – DIAMOSOLV 323 is manufactured using proprietary methods, chemistries, and formulations.

**Product Description**
DIAMOSOLV™ 323 is a bio-based solvent made from biorenewable sources. It is a clear, colorless liquid with a mild, fruity/floral odor.

**Product Uses**
DIAMOSOLV™ 323 is used as a component in household and industrial cleaning formulations. This product offers excellent degreasing properties with ultra-low volatile organic compound (VOC) characteristics. Common applications include:
- Adhesive removers
- Asphalt removers
- Concrete cleaners
- Graffiti removers
- Grease trap cleaners
- Ink cleaners
- Parts cleaners/degreasers
- Paint strippers

**Exposure Potential**
DIAMOSOLV™ 323 is used in the production of industrial and consumer products. Based on the uses for this product, individuals could be exposed through:
- **Workplace exposure** – Exposure can occur either in facilities that formulate and/or distribute DIAMOSOLV 323 or in the various industrial or manufacturing facilities that use this product. Occupational exposure in industrial operations could occur during formulation, maintenance, sampling, testing, or other procedures. Each manufacturing facility should have a thorough training program for employees and appropriate work processes, ventilation, and safety equipment in place to limit exposure. See Health Information.
- **Consumer exposure to products containing DIAMOSOLV 323** – Dow does not sell DIAMOSOLV 323 for direct consumer use, but it is used in the formulation of cleaning products with which consumers may come in contact. Always read the product label prior to use and carefully follow instructions. See Health Information.
- **Environmental releases** – Small quantities of these materials may be released into the environment if consumer products that contain them are discarded. In the event of a spill, the focus is on containing the spill to prevent contamination of soil, surface water, or groundwater. DIAMOSOLV 323 has low solubility in water and very low volatility. This product is considered readily biodegradable; therefore, it is unlikely to persist in the environment or following wastewater treatment. This product is considered highly toxic to aquatic organisms on an acute basis (LC50/EC50 between 0.1 and 1.0 mg/L in the most sensitive species tested). Prevent this product from entering into soil, ditches, sewers, waterways and/or groundwater. See Environmental, Health, and Physical Hazard Information.
- **Large release** – Industrial spills or releases are infrequent and generally contained. If a large spill does occur, isolate the area. Collect in suitable and properly labeled containers for disposal. Keep unnecessary and unprotected personnel from entering area. Prevent product from entering soil, waterways, and groundwater. Use appropriate safety equipment. See Environmental, Health, and Physical Hazard Information.
- **In case of fire** – Keep people away and isolate fire. Deny any unnecessary entry into the area. Use foam, carbon-dioxide or dry-chemical extinguishers, or water fog or fine spray to fight the fire. Foam fire-extinguishing is preferred because uncontrolled water can spread possible contamination. Alcohol-resistant foams are preferred. Use of a direct water stream may spread the fire or cause violent steam generation or eruption. Avoid accumulation of water; the product may be carried across the water surface, spreading fire or contacting an ignition source. Firefighters should wear positive-pressure, self-contained breathing apparatus (SCBA) and protective firefighting clothing. Keep fire water out of waterways and sewers. Follow emergency procedures outlined in the Safety Information.
Data Sheet carefully. See Environmental, Health, and Physical Hazard Information.

For more information, request the relevant Safety Data Sheet from the Dow Customer Information Group.

Health Information

Health information for DIAMOSOLV™ 323 is summarized on the relevant Safety Data Sheet. The Safety Data Sheet is the preferred source for specific health information. An overview of health information appears below.

Eye contact – Contact may cause slight irritation. Corneal injury is unlikely.

Skin contact – Brief contact may cause moderate irritation with local redness. Prolonged skin contact is unlikely to result in absorption of harmful amounts.

Inhalation – At room temperature, exposure to vapor is minimal due to low volatility; single exposure is not likely to be hazardous.

Ingestion – Very low toxicity if swallowed. Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury.

For more information, request the relevant Safety Data Sheet from the Dow Customer Information Group.

Environmental Information

DIAMOSOLV™ 323 has low solubility in water and very low volatility. If released to the environment, this product would tend to partition to soil and sediments. This product is considered readily biodegradable based on the biodegradability of similar materials. Because it is considered readily biodegradable, it is unlikely to persist in the environment or food chain, or following biological wastewater treatment.

DIAMOSOLV 323 is considered highly toxic (LC₅₀/EC₅₀ between 0.1 and 1.0 mg/L in the most sensitive species tested) to aquatic organisms on an acute basis. Although the bioconcentration potential is considered moderate based on similar materials, this product is unlikely to bioaccumulate due to its high biodegradability.

For more information, request the relevant Safety Data Sheet from the Dow Customer Information Group.

Physical Hazard Information

DIAMOSOLV™ 323 is stable under recommended storage conditions. Exposure to elevated temperatures can cause this product to decompose. Avoid contact with oxidizing materials.

For more information, request the relevant Safety Data Sheet from the Dow Customer Information Group.

Regulatory Information

Regulations may exist that govern the manufacture, sale, transportation, use, and/or disposal of DIAMOSOLV™ 323. These regulations may vary by city, state, country, or geographic region. Information may be found by consulting the relevant Safety Data Sheet and Technical Data Sheet available from the Dow Customer Information Group or Contact Us.
Additional Information

- Request the relevant Safety Data Sheet and Technical Data Sheet from the Dow Customer Information Group (www.dow.com/assistance/dowcig.htm)
- Contact Us (www.dow.com/company/contact/)
- Dow Consumer & Industrial Solutions Hard Surface Care: Shine On (hips.dow.com/en/hard-surface-cleaning)

For more business information about DIAMOSOLV™ 323, visit the Dow Consumer & Industrial Solutions web site at hips.dow.com/en/hard-surface-cleaning.

References

2 The Dow Chemical Company. DIAMOSOLV™ 323, Technical Data Sheet.
Product Safety Assessment: DIAMOSOLV™ 323

NOTICES

As part of its 2015 Sustainability Goals, Dow has committed to make publicly available safety assessments for its products globally. This product safety assessment is intended to give general information about the chemical (or categories of chemicals) addressed. It is not intended to provide an in-depth discussion of health and safety information. Additional information is available through the relevant Safety Data Sheet, which should be consulted before use of the chemical. This product safety assessment does not replace required communication documents such as the Safety Data Sheet.

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Back to top

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