

Tetrasodium iminidisuccinate

This document provides a brief description of tetrasodium iminidisuccinate, its uses, and the potential hazards associated with short and long term exposure. Environmental impact information for accidental releases is included. This information is general in nature and is not intended as a replacement for the safety data sheet (SDS), product label and other safe handling literature. For additional information consult the LANXESS safety data sheet.

Identification

Product Name:	Tetrasodium iminidisuccinate
Chemical Name:	N-(1,2-dicarboxyethyl)-aspartic acid, tetrasodium
Synonym(s):	Iminodisuccinic acid sodium salt Tetrasodium salt of iminidisuccinic acid
CAS Number:	144538-83-0

Description

Overview:	Tetrasodium iminidisuccinate is off-white in color and solid at ambient temperatures. The chemical has a slight odor and is sold in granular form.	
Uses:	Tetrasodium iminidisuccinate is sold by LANXESS primarily for use as an antiscaling agent and corrosion inhibitor. The chemical is also used as an additive or processing aid in the manufacture of detergents, cleaning agents, paper, textiles, photographic products and agricultural (non-food use) pesticides.	
Properties:	Melting Point:	> 572°F (300°C)
	Solubility in Water:	Soluble
	Auto-ignition:	>626°F (330°C)

Potential Human Health Effects

Occupational Exposure

Potential for occupational exposure exists during manufacture, at storage and staging areas and within operations where tetrasodium iminidisuccinate is used as an additive or processing aid in the manufacture of other products. A much lower potential for exposure exists in facilities using the chemical in closed manufacturing processes by trained personnel.

Employee Training

Workers handling tetrasodium iminidisuccinate should be trained to implement proper handling procedures and to understand the potential health and physical hazards of the chemical. A NIOSH approved air purifying particulate respirator with N-95 filters is recommended where airborne concentrations may exceed exposure guidelines. In addition, LANXESS recommends that safety glasses with side shields be worn when handling tetrasodium iminidisuccinate.

Consumer Exposure

LANXESS Corporation does not sell tetrasodium iminidisuccinate to the general public.

Short-Term Health Effects

Tetrasodium iminidisuccinate is considered hazardous under the criteria of the U.S. Federal OSHA Hazard Communication Standard 29 CFR 1910.1200. The chemical is not expected to be irritating to skin, eyes or the respiratory tract and is not expected to be harmful if swallowed.

Long-Term Health Effects

No adverse chronic health effects are expected.

Physical Hazards

Tetrasodium iminidisuccinate is stable under normal conditions of use. Avoid contact with strong oxidizing agents. Heating tetrasodium iminidisuccinate to decomposition may release carbon oxides, nitrogen oxides and other potentially toxic fumes. Dust/air mixtures may be a fire and explosion hazard. Avoid heat, open flames and other potential sources of ignition.

Potential Environmental Impact

Tetrasodium iminidisuccinate is readily biodegradable and degrades rapidly with exposure to sunlight and environmental water sources. An accidental release to water may pose a danger to fish (low toxicity), invertebrates (low toxicity) and aquatic plants (low toxicity) prior to degradation. The chemical is not expected to bioaccumulate.

Conclusion

Product Safety Assessment: Tetrasodium iminodisuccinate

Under normal conditions of anticipated use as described in this Product Safety Assessment, and if the recommended safe use and handling procedures are followed, tetrasodium iminodisuccinate is not expected to pose a significant risk to human health or the environment.

References

ACToR Database (144538-83-0), United States Environmental Protection Agency (EPA)

Inert Ingredients Permitted for Use in Nonfood Use Pesticide Products (April 2011), United States Environmental Protection Agency (EPA)

Safety Data Sheet (SDS), Tetrasodium Iminodisuccinate Solid, LANXESS Corporation

MedlinePlus Medical Encyclopedia, U.S. National Library of Medicine and the National Institutes of Health

Contact Information

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Notices

Use and Application Information

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