



From: Avantor Performance Materials, Inc.
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24 Hour Emergency Telephone: 908-859-2151
CHEMTREC: 1-800-424-9300

National Response in Canada
CANUTEC: 613-996-6666

Outside U.S. and Canada
Chemtec: 703-527-3887

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

All non-emergency questions should be directed to Customer Service, 1-855-AVANTOR (855-282-6867) for assistance.

1,2-Cyclohexanedicarboxylic Anhydride

1. Product Identification

Synonyms: None
CAS No.: 85-42-7
Molecular Weight: 154.17
Chemical Formula: C8H10O3

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Hexahydro-1,3-isobenzofurandione	85-42-7	98 - 100%	Yes

3. Hazards Identification

Emergency Overview

WARNING! MAY CAUSE ALLERGIC RESPIRATORY REACTION. DUST IRRITATING TO EYES AND RESPIRATORY TRACT. CAUSES SKIN IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION. TARGET ORGAN(S): Eyes, skin, respiratory system, lungs.

Potential Health Effects

Inhalation:

Irritation of respiratory system, May cause allergic reaction in sensitive individuals.

Ingestion:

None identified.

Skin Contact:

Irritation.

Eye Contact:

Irritation.

Chronic Exposure:

No information found.

Aggravation of Pre-existing Conditions:

Damaged skin, respiratory system disease.

4. First Aid Measures

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Prompt action is essential.

Ingestion:

If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Skin Contact:

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before re-use.

Eye Contact:

In case of eye contact, immediately flush with plenty of water for at least 15 minutes.

5. Fire Fighting Measures

Fire:

Not expected to be a fire hazard.

Explosion:

This material, like most organic materials in powder form, is capable of creating a dust explosion.

Fire Extinguishing Media:

Water spray; Dry chemical; Carbon dioxide.

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

Sweep up material and package for safe feed to an incinerator.

7. Handling and Storage

Keep from contact with oxidizing materials. Keep container tightly closed and away from water. Do not allow water to get into closed container, reaction may result in violent rupture of container. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

None established.

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved):

For conditions of use where exposure to the substance is apparent, consult an industrial hygienist. For emergencies, or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. WARNING: Air purifying respirators do not protect workers in oxygen-deficient

atmospheres.

Skin Protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection:

Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

Other Control Measures:

There is insufficient data in the published literature to assign complete numerical SAF-T-DATA* ratings and laboratory protective equipment for this product. Special precautions must be used in storage, use and handling. Protective equipment for laboratory bench use should be chosen using professional judgment based on the size and type of reaction or test to be conducted and the available ventilation, with overriding consideration to minimize contact with the chemical.

9. Physical and Chemical Properties

Appearance:

Off-white crystalline solid.

Odor:

No information found.

Solubility:

Decomposes

Specific Gravity:

1.18

pH:

No information found.

% Volatiles by volume @ 21C (70F):

100

Boiling Point:

No information found.

Melting Point:

30C (86F)

Vapor Density (Air=1):

No information found.

Vapor Pressure (mm Hg):

0 @ 20C (68F)

Evaporation Rate (BuAc=1):

0

10. Stability and Reactivity

Stability:

Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products:

Carbon dioxide, carbon monoxide.

Hazardous Polymerization:

Will not occur.

Incompatibilities:

Strong oxidizing agents, water.

Conditions to Avoid:

No information found.

11. Toxicological Information

-----\Cancer Lists\-----			
Ingredient	---NTP Carcinogen---		IARC Category
	Known	Anticipated	
Hexahydro-1,3-isobenzofurandione (85-42-7)	No	No	None

12. Ecological Information

Environmental Fate:

No information found.

Environmental Toxicity:

No information found.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Not regulated.

15. Regulatory Information

-----\Chemical Inventory Status - Part 1\-----				
Ingredient	TSCA	EC	Japan	Australia
Hexahydro-1,3-isobenzofurandione (85-42-7)	Yes	Yes	Yes	Yes

-----\Chemical Inventory Status - Part 2\-----				
Ingredient	Korea	--Canada--		Phil.
		DSL	NDSL	
Hexahydro-1,3-isobenzofurandione (85-42-7)	Yes	Yes	No	Yes

-----\Federal, State & International Regulations - Part 1\-----				
Ingredient	-SARA 302-		-----SARA 313-----	
	RQ	TPQ	List	Chemical Catg.
Hexahydro-1,3-isobenzofurandione (85-42-7)	No	No	No	No

-----\Federal, State & International Regulations - Part 2\-----			
Ingredient	CERCLA	-RCRA-	-TSCA-
		261.33	8(d)
Hexahydro-1,3-isobenzofurandione (85-42-7)	No	No	No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No
SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No
Reactivity: No (Pure / Solid)

Australian Hazchem Code: No information found.

Poison Schedule: No information found.

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. Other Information

Label Hazard Warning:

WARNING! MAY CAUSE ALLERGIC RESPIRATORY REACTION. DUST IRRITATING TO EYES AND RESPIRATORY TRACT. CAUSES SKIN IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION.

TARGET ORGAN(S): Eyes, skin, respiratory system, lungs.

Label Precautions:

No SAF-T-DATA Ratings have been developed for this product. Read and follow all warnings, precautions, instructions and other safety and handling information on the label and MSDS. Avoid contact with eyes, skin, clothing. Avoid breathing dust. Use with adequate ventilation. Keep container closed. Wash thoroughly after handling.

Label First Aid:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Prompt action is essential. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Product Use: Laboratory Reagent.

Disclaimer:

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Prepared by: Environmental Health & Safety