

SAFETY DATA SHEET



Date issued : 02/16/2010

SDS number : SD #1H

Date revised : 04/10/2025

Revision number : 5

Super Deox #1H (Lead-Free)

1. Identification

Product identifier: Super Deox #1H (Lead-Free)**Product description:** Dross Reducer**Manufacturer / Supplier**

Qualitek International, Inc.

315 Fairbank St.

Addison, IL 60101

Emergency Phone: (800) 535-5053**Customer Service:** (630) 628-8083**Emergency telephone number (24 hour)**

1-800-535-5053 Infotrac

1-352-323-3500 Outside the U.S.

2. Hazard identification

Classification of the substance or mixture**Health hazards:**

Eye Irritation, Category 2A

Label elementsExclamation
mark**Signal word:** WARNING**Hazard statement(s)**

H319: Causes serious eye irritation.

Precautionary statement(s)**Prevention:**

P264: Wash hands thoroughly after handling.

Response:

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P304+P341: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Storage:

P402: Store in a dry place.

Disposal:



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P501: Dispose of contents/container in accordance to local/regional/national/international regulations.

Potential health effects

Eye: Will cause severe eye irritation. Will injure eye tissue if not removed promptly.

Skin: Brief contact may cause slight irritation with itching and local redness. Prolonged contact may cause mild to moderate local redness and swelling.

Ingestion: May cause severe shock, vasomotor depression, cardiac disturbances or hypocalcemia. This material is corrosive to the gastrointestinal tract and may cause hemorrhagic gastroenteritis. NOTE: The fatal dose for ammonium fluoborate is probably only slightly higher than the 1-4 grams reported for other fluorides.

Inhalation: High vapor concentrations cause irritation to the respiratory tract, experienced as nasal discomfort and discharge, with chest pain and coughing. Headache, nausea, vomiting, dizziness, and drowsiness may occur.

3. Composition/information on ingredients

Chemical name	% w/w	CAS No.
Potassium Tetrafluoroborate	< 80	14075-53-7
Ammonium Tetrafluoroborate	< 20	13826-83-0

4. First-aid measures

Eye: Remove any contact lenses. Immediately flush eyes with large quantities of water for at least 15 minutes. Get medical attention if irritation or vision problems develop.

Skin: Immediately wash skin with soap and copious amounts of water. Remove any contaminated clothing. Get medical attention if irritation develops. Wash contaminated clothing before reuse.

Ingestion: Do NOT induce vomiting. If person is conscious, immediately give several glasses of milk, milk of magnesia or other calcium containing liquid, if available. Otherwise, give several glasses of water. Seek immediate medical attention.

Inhalation: Move person to fresh air. If breathing is stopped or is labored, give assisted respiration (e.g. mouth-to-mouth). Supplemental oxygen may be indicated. Seek medical advice if necessary.

Most important symptoms and effects, both acute and delayed

Chronic effects: Long term exposure to inorganic fluorides may cause osseous fluorosis (overabundance of fluorine in bone tissues), kidney damage, asthma, and symptoms resembling rheumatism.

Comments: If victims of chemical over-exposure are taken for medical attention, give a copy of the label or this SDS to the physician/health care professional.

5. Fire-fighting measures

Suitable extinguishing media: Water. Avoid carbonate dry powder because of reactivity.

Fire fighting procedures: Move containers from the area of the fire if possible. If not, cool closed containers with

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water.

Fire fighting equipment: Self contained breathing apparatus and full protective turn-out gear.

Hazardous decomposition products: At elevated temperatures, ammonium fluoborate decomposes to form ammonia, hydrogen fluoride, boron trifluoride, and other boron compounds.

6. Accidental release measures

General procedures: Avoid raising dust if possible. Sweep, scoop, or vacuum up spilled material and place in containers for later recovery or disposal. Ventilate area and flush residual spill area.

7. Handling and storage

General procedures: Store in a cool dry place away from incompatible materials. Keep away from heat, flame, sparks and other sources of ignition. Keep containers closed when not in use.

Precautions for safe handling: Do not store or transport in or otherwise use glass containers when handling this material.

8. Exposure controls/personal protection

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Exposure controls

Control parameters				
	Occupational exposure limit values			
Chemical name	Type		ppm	mg/m³
Potassium Tetrafluoroborate	OSHA PEL	TWA	NL ppm ^[1]	NL mg/m3 ^[1]
		STEL	NL ppm	NL mg/m3
	ACGIH TLV	TWA	NL ppm	2.5 mg/m3
		STEL	NL ppm	NL mg/m3
	Supplier OEL	TWA	NL ppm	NL mg/m3
		STEL	NL ppm	NL mg/m3
Ammonium Tetrafluoroborate	OSHA PEL	TWA	NL ppm	35 mg/m3
		STEL	NL ppm	NL mg/m3
	ACGIH TLV	TWA	NL ppm	17 mg/kg
		STEL	NL ppm	24 mg/kg
	Supplier OEL	TWA	NL ppm	NL mg/m3
		STEL	NL ppm	NL mg/m3
Footnotes: 1. NL = Not Listed				

Appropriate engineering controls: Local exhaust may be necessary if working with the product in enclosed areas or at elevated temperatures.

Individual protection measures, such as personal protective equipment

Eye / face protection: Face shield, safety glasses with side shield or chemical splash goggles.

Skin protection - hand protection: Rubber, chemical resistant gloves. When material is heated, wear gloves to protect against thermal burns.

Respiratory protection: Atmospheric levels should be maintained below the exposure guideline. For most conditions, no respiratory protection should be needed; however, if handling at elevated temperatures and/or without sufficient ventilation, use a NIOSH/MSHA approved air-purifying respirator.

Skin protection - other: Protective clothing and safety shoes as necessary to minimize contact.

Occupational hygiene practices: Good personal hygiene practices should be used. Wash after any contact, before eating, and at the end of the work period.

Other use precautions: Eye wash station and quick drench safety shower in immediate work area.

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9. Physical and chemical properties

Appearance: Crystalline solid.

Color: White

Odor: Mild

Melting point: > 300°C (572°F) (sublimes)

Initial boiling point and boiling range: Not Applicable

Flash point: Not Flammable

Evaporation rate (n-butyl acetate = 1): Not Applicable

Lower explosion limit / flammability limit: N/A

Vapor pressure: Not Applicable

Relative vapor density: Not Applicable

Solubility: Complete

Auto-ignition temperature: Not Flammable

10. Stability and reactivity

Dangerous polymerization: Will not occur.

Chemical stability: Stable under ordinary use and storage conditions.

Hazardous decomposition products: At elevated temperatures, ammonium fluoborate decomposes to form ammonia, hydrogen fluoride, boron trifluoride, and other boron compounds.

Incompatible materials: Inorganic acids, inorganic bases, oxidizing agents (including chlorine, oxygen, permanganates, perchlorates, percarbonates, peroxides, chromates, hypochlorites, nitric acid and sulfuric acid) and strong reducing agents (including hydrogen, hydrazine, sulfides, sulfites and nitrites).

11. Toxicological information

Carcinogenicity

IARC: Not listed.

NTP: Not listed.

OSHA: Not listed.

12. Ecological information

Other adverse effects: No information on ecological toxicity is available at this time.

13. Disposal considerations

Disposal methods: Dispose of this material, contaminated absorbent material and other contaminated materials in an approved waste disposal facility, according to all applicable Federal, State, and Local regulations. Recovery and reuse, rather than disposal, should be the ultimate goal in handling efforts.



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14. Transport information

USA Department of Transport Regulations (DOT)

UN proper shipping name: Environmentally Hazardous Substances, Solids, N.O.S.

Technical name: Ammonium Fluoborate

UN number: UN 3077

Transport hazard class(es): 9

Packing group, if applicable: III

Reportable quantity (rq) under CERCLA: 5000 lb (2270 kg)

DOT other shipping information: Net quantities less than 2270 kg (5000 lbs) are not regulated.

15. Regulatory information

UNITED STATES

SARA Section 311/312 Hazard Categories

311/312 Health hazards: Acute health and chronic health hazard.

313 reportable ingredients: None.

CERCLA Hazardous Substances and Reportable Quantities (RQ)

CERCLA rq: Ammonium fluoborate CAS# 13826-83-0

Reportable spill quantity: 5000 lbs (2270 kg)

TSCA (The Toxic Substances Control Act)

TSCA Status: All ingredients are listed or are exempt from listing (as polymers) on the Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

California Proposition 65: This product contains a chemical known to the state of California to cause cancer and birth defects or other reproductive harm.

16. Other information

Reason for issue: New format

Approved by: P. Han **Title:** Technical Director

Prepared by: Dinesh Amin **Date revised:** 04/10/2025

Information contact: (630) 628-8083

Revision summary: This SDS replaces the 08/21/2017 SDS. Revised: **Section 2:** Classification of the substance or mixture, Label elements, Precautionary statement(s).



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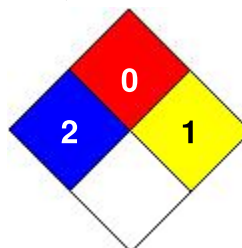
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HMIS rating

Health		2
Flammability		0
Physical hazard		1
Personal protection	F	

NFPA codes



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