

SAFETY DATA SHEET



Date Prepared : 1/1/2024
SDS No : 269A

Royson #53-F

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Royson #53-F
GENERAL USE: Industrial cleaner

MANUFACTURER

Royson Engineering Company www.royson.com
100 North Penn St - P.O. Box 160
Hatboro, PA 19040
Customer Service: (215) 675-2800
E-Mail: roysondan@juno.com

24 HR. EMERGENCY TELEPHONE NUMBERS

For Hazardous Materials [or Dangerous Goods] Incident
Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night
Within USA and Canada: 1-800-424-9300
Outside USA and Canada: +1 703-527-3887 (collect calls accepted)
CHEMTREC Customer Number (CCN) 725673

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS Health:

Skin Irritation, Category 2
Eye Irritation, Category 2
Carcinogenicity, Category 2
Reproductive Toxicity, Category 2

GHS LABEL



Exclamation
mark



Health
hazard

SIGNAL WORD: WARNING

HAZARD STATEMENTS

H315: Causes skin irritation.
H319: Causes serious eye irritation.
H350: May cause cancer.
H360: May damage fertility or the unborn child.

PRECAUTIONARY STATEMENTS

Prevention:

P264: Wash thoroughly after handling.
P202: Do not handle until all safety precautions have been read and understood.
P201: Obtain special instruction before use.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

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.

P337+P313: If eye irritation persists: Get medical advice/attention.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P332+P313: If skin irritation occurs: Get medical advice/attention.

P362: Take off contaminated clothing and wash before reuse.

P308+P313: IF exposed or concerned: Get medical advice/attention.

Storage:

P405: Store locked up.

Disposal:

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

POTENTIAL HEALTH EFFECTS

EYES: May cause eye irritation.

SKIN: May cause skin irritation.

INGESTION: Ingestion of this product is unlikely. However, if ingested the product may cause gastrointestinal irritation and disturbances.

INHALATION: Inhalation of vapors or mists may be irritating to respiratory system.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt. %	CAS
Boric acid (H ₃ BO ₃)	10 - 30	10043-35-3
Ethanol, 2-amino-	10 - 30	141-43-5
Ethanol, 2, 2', 2''-nitrilotris	5 - 10	102-71-6
Ethanol, 2, 2'-iminobis-	0 - 1	111-42-2
Surfactant	5 - 10	
Amine Carboxylate	1 - 5	

COMMENTS:

As per paragraph (i) of 29 CFR 1910.1200, formulation is considered a trade secret and specific chemical identity and exact percentage (concentration) of composition may have been withheld. Specific chemical identity and exact percentage composition will be provided to health professionals, employees, or designated representatives in accordance with applicable provisions of paragraph (i).

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

SKIN: Wash with soap and water. Get medical attention if irritation develops or persists.

INGESTION: Get immediate medical attention. Do not induce vomiting unless instructed to do so by poison center or physician.

INHALATION: If mist or vapor of this product is inhaled, remove person immediately to fresh air. Seek medical attention if symptoms develop or persist.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.

HAZARDOUS COMBUSTION PRODUCTS: Oxides of carbon and nitrogen may be produced.

OTHER CONSIDERATIONS: Product contains water and will only burn after water is boiled off.

FIRE FIGHTING EQUIPMENT: Wear self-contained breathing apparatus and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES: Absorb spill with inert material. Collect material into appropriate container for disposal. Dispose of in accordance with Federal, State and local regulations.

SPECIAL PROTECTIVE EQUIPMENT: Wear suitable protective clothing, gloves and eye/face protection. Prevent further leakage or spillage if safe to do so.

7. HANDLING AND STORAGE

HANDLING: Avoid contact with eyes and skin. Wash thoroughly after handling.

STORAGE: Keep container tightly closed and in a cool, well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)					
		EXPOSURE LIMITS			
		OSHA PEL		ACGIH TLV	
Chemical Name		ppm	mg/m ³	ppm	mg/m ³
Ethanol, 2-amino-	TWA	3	6	3	7.5
	STEL			6	15
Ethanol, 2, 2', 2''-nitritoltris	TWA				5
Ethanol, 2, 2'-iminobis-	TWA				1

ENGINEERING CONTROLS: Provide local and general exhaust ventilation.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Safety glasses

SKIN: Chemical resistant protective gloves

RESPIRATORY: If ventilation is not sufficient to prevent buildup of mists and vapors, wear appropriate NIOSH/MSHA respirator.

WORK HYGIENIC PRACTICES: Wash hands before breaks and at the end of work.

9. PHYSICAL AND CHEMICAL PROPERTIES

ODOR: Aminic

ODOR THRESHOLD: Not determined.

APPEARANCE: Liquid

COLOR: Amber **pH:**

10.4

FLASH POINT AND METHOD: > (212°F) Cleveland Open Cup **Notes:**

Product contains water.

FLAMMABLE LIMITS: N/D

VAPOR PRESSURE: ~ 13 mm Hg

VAPOR DENSITY: ~ 0.5 Air = 1

BOILING POINT: > (212°F)

FREEZING POINT: ~ (32°F)

THERMAL DECOMPOSITION: Not determined.

SOLUBILITY IN WATER: Soluble

EVAPORATION RATE: < 1

SPECIFIC GRAVITY: 1.17

VISCOSITY: Not determined.

10. STABILITY AND REACTIVITY**REACTIVITY:** Nonreactive.**STABILITY:** Stable**CONDITIONS TO AVOID:** Product contains amines. Do not mix with nitrites or other nitrosating agents because carcinogenic nitrosamines may be formed.**POSSIBILITY OF HAZARDOUS REACTIONS:** No dangerous reactions known.**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of carbon and nitrogen.**INCOMPATIBLE MATERIALS:** Strong oxidizing agents.**11. TOXICOLOGICAL INFORMATION****ACUTE**

Chemical Name	ORAL LD ₅₀	DERMAL LD ₅₀	INHALATION LC ₅₀
Boric acid (H ₃ BO ₃)	2660 mg/kg		
Ethanol, 2-amino-	1.19 ml/kg	2.46 ml/kg	
Ethanol, 2, 2', 2''-nitrilotris	> 2000 mg/kg		
Ethanol, 2, 2'-iminobis-	1600 mg/kg	> 8200 mg/kg	3.35 mg/L

EYE EFFECTS: Product may cause eye irritation.**SKIN EFFECTS:** Product may cause skin irritation.**CARCINOGENICITY**

Chemical Name	IARC Status
Ethanol, 2, 2'-iminobis-	2B - Possibly carcinogenic to humans (Diethanolamine)

Notes: Contains material which may cause cancer, based on animal data. Risk of cancer depends on duration and level of exposure. Diethanolamine: Causes tumors in rodents. Research has shown that the mechanism of carcinogenicity is not relevant to humans.**REPRODUCTIVE EFFECTS:** In animal testing, the risk of impaired fertility was shown only after administration of very high doses of boric acid.**GENERAL COMMENTS:** Routes of exposure: skin, inhalation and eyes.**12. ECOLOGICAL INFORMATION****ENVIRONMENTAL DATA:** No data available.**13. DISPOSAL CONSIDERATIONS****DISPOSAL METHOD:** Dispose of in accordance with local, state and federal regulations.**14. TRANSPORT INFORMATION****DOT (DEPARTMENT OF TRANSPORTATION) PROPER SHIPPING NAME:** Not regulated**15. REGULATORY INFORMATION****UNITED STATES CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT)**

Chemical Name	Wt. %	CERCLA RQ
Ethanol, 2, 2'-iminobis-	0 - 1	100

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA REGULATORY: All of the components in this product are either listed on or exempt from the Toxic Substance Control Act (TSCA) chemical substance inventory.

16. OTHER INFORMATION

Date Prepared: 1/1/2022

HMIS RATING

HEALTH	<input type="checkbox"/>	2
FLAMMABILITY	<input type="checkbox"/>	0
PHYSICAL HAZARD	<input type="checkbox"/>	0
PERSONAL PROTECTION	<input type="checkbox"/>	B

MANUFACTURER DISCLAIMER:

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