

SAFETY DATA SHEET

Randolph Products Company

MIL-PRF-24635 TYPE V HARDENER - 0.8 QUART

Date Printed: 9/6/2019

Page 1 of 9

1. Product and Company Identification

Product Name : MIL-PRF-24635 TYPE V HARDENER - 0.8 QUART

Product Code : 24635-5B-QT1

Recommended Use: Please refer to Product Information/Technical Data Sheet.

Company Identification:

Randolph Products Company
33 Haynes Circle
Chicopee, MA 01020

Information Phone: 413-592-4191

Emergency Phone: ChemTel 800-255-3924

2. Hazards Identification

EMERGENCY OVERVIEW

HAZARD CLASSIFICATION:

FLAMMABLE LIQUID, CATEGORY 3

ACUTE TOXICITY (ORAL), CATEGORY 4

SKIN IRRITATION, CATEGORY 2

EYE IRRITATION, CATEGORY 2B

ASPIRATION HAZARD, CATEGORY 1

SIGNAL WORD:

DANGER



HAZARD STATEMENTS:

HIGHLY FLAMMABLE LIQUID AND VAPOR

SAFETY DATA SHEET

Randolph Products Company

MIL-PRF-24635 TYPE V HARDENER - 0.8 QUART

Date Printed: 9/6/2019

Page 2 of 9

HARMFUL IF SWALLOWED
CAUSES SKIN IRRITATION
CAUSES EYE IRRITATION

PRECAUTIONARY STATEMENTS:

Keep away from heat, sparks, open flame/hot surfaces.
No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting and other equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Store in a well ventilated place.
Keep cool.
Store locked up.
Wash hands thoroughly after handling.
Do not eat or drink while using this product.
If swallowed, immediately call a poison control center.
Rinse mouth.
Wear protective gloves, protective clothing, eye/face protection.
If on skin, wash with plenty of water.
If skin irritation occurs, seek medical advice.
Take off contaminated clothing and wash it before reuse.
If in eyes, rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: get medical attention.

Potential Health Effects

Eye:
Can cause eye irritation.
Skin:
Causes skin irritation.
Ingestion:
If swallowed, call a poison control center or physician if you feel unwell.
Rinse mouth.
Inhalation:
May cause drowsiness or dizziness.

Chronic (Cancer) Information:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probably, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

SAFETY DATA SHEET

Randolph Products Company

MIL-PRF-24635 TYPE V HARDENER - 0.8 QUART

Date Printed: 9/6/2019

Page 3 of 9

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Teratology (Birth Defects) Information:

INFORMATION NOT AVAILABLE.

Reproduction Information:

INFORMATION NOT AVAILABLE.

Aggravation of Pre-Existing Conditions:

Dermatitis or other skin conditions.

3. Composition/Information on Ingredients

Component	CAS#	% by Wt.
3-AMINOPROPYLTRIETHOXYSILANE	919-30-2	71
CAUSES EYE AND SKIN BURNS		
CAN CAUSE SKIN SENSITIZATION		
DIBUTYLTIN DILAURATE	77-58-7	5
ACGIH TLV: 0.1 MG/M3 TWA		
OSHA PEL: 0.1 MG/M3 TWA		

4. First Aid Measures

Eyes:

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

Skin:

If on skin: wash with plenty of soap & water. If skin irritation occurs: Get Medical advice/attention.

Take off contaminated clothing and wash it before reuse.

Ingestion:

If swallowed: Immediately call a poison center/physician.
Do NOT induce vomiting.

Inhalation:

If inhaled: Remove person to fresh air and keep comfortable for breathing.
Call a poison control center/get medical attention if you feel unwell.

Note to Physicians:

INFORMATION NOT AVAILABLE.

SAFETY DATA SHEET

Randolph Products Company

MIL-PRF-24635 TYPE V HARDENER - 0.8 QUART

Date Printed: 9/6/2019

Page 4 of 9

5. Fire Fighting Measures

Flammable Properties:

Flash Point: 101 F

Method:

Explosive Limits:

Lower explosive limit: n/a

Upper explosive limit: n/a

Autoignition Temperature:

INFORMATION NOT AVAILABLE.

Hazardous Combustion Products:

Smoke, soot and carbon dioxide, carbon monoxide.

Extinguishing Media:

Dry chemical, CO2, Halon, Foam

Firefighting Procedures:

Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective clothing.

Unusual Fire and Explosion Hazards: High temperatures can cause sealed containers to rupture due to a build up of internal pressure. Cool with water spray. Vapors are heavier than air and can travel some distance away and flash back.

Sensitivity to Static Discharge: Material may accumulate a static charge which could act as an ignition source.

Precautions should be taken when pouring to minimize splash/free fall.

6. Accidental Release Measures

Small Spill:

See Information for Large Spill, below:

Large Spill:

Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental Precautions:

INFORMATION NOT AVAILABLE.

Methods/Materials for Containment and Cleaning Up:

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/state/federal regulations.

7. Handling and Storage

Handling:

SAFETY DATA SHEET

Randolph Products Company

MIL-PRF-24635 TYPE V HARDENER - 0.8 QUART

Date Printed: 9/6/2019

Page 5 of 9

Keep away from heat, sparks, open flames, hot surfaces. NO SMOKING. Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/processing equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wear protective gloves/eye protection/face protection.

Storage:

Prevent unauthorized access.
Store in a well ventilated place.
Keep container tightly closed.
Keep cool.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

SEE SECTION 3 FOR THIS INFORMATION

Engineering Controls:

Ventilation: Good general ventilation (typically 10 air changes per hour) should be used.

Ventilation rates should be matched to conditions.

Ventilation should be explosion proof.

Supplementary local exhaust ventilation, closed systems, or respiratory protection may be needed in special circumstances such as poorly ventilated spaces, spray painting, mechanical generation of dusts, heating, drying, etc.

Personal Protective Equipment

Respiratory Protection:

If engineering controls do not maintain airborne concentrations to an acceptable level, an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 CFR 1152, January 8, 1998. Respirator type: Organic Vapor.

Skin Protection:

Wear impervious gloves to prevent skin contact.

Recommended Decontamination Facilities: eye bath, washing facilities, safety shower.

Eye Protection:

Chemical safety goggles or glasses with side shields.

9. Physical and Chemical Properties

SAFETY DATA SHEET

Randolph Products Company

MIL-PRF-24635 TYPE V HARDENER - 0.8 QUART

Date Printed: 9/6/2019

Page 6 of 9

Boiling Point: 369 F

Melting Point:
INFORMATION NOT AVAILABLE.
Freezing Point: n/a

Vapor Pressure:
Information not available for mixture
Vapor Density:
HEAVIER THAN AIR
Solubility in Water:
NEGLIGIBLE
Evaporation Rate: SLOWER THAN ETHER

Specific Gravity: .976

Weight per Gallon: 8.126 lb/gal

Coating VOC: 0.0 lb/gal

Material VOC: 0.0 lb/gal

Odor:
Mild solvent odor.
Appearance:
Liquid.
Partition Coefficient:
INFORMATION NOT AVAILABLE.

10. Stability and Reactivity

Chemical Stability (Conditions to Avoid):
Stable under normal storage/use conditions.
Incompatibility:
Avoid strong oxidizing agents, acids and alkalies.
Hazardous Decomposition Products:
INFORMATION NOT AVAILABLE.
Hazardous Polymerization:
Will not occur under normal conditions.

11. Toxicological Information

Eye Irritation/Damage:
INFORMATION NOT AVAILABLE.
Skin Irritation/Damage:
INFORMATION NOT AVAILABLE.
Acute Oral Toxicity:
INFORMATION NOT AVAILABLE.
Acute Inhalation Toxicity:
INFORMATION NOT AVAILABLE.

SAFETY DATA SHEET

Randolph Products Company

MIL-PRF-24635 TYPE V HARDENER - 0.8 QUART

Date Printed: 9/6/2019

Page 7 of 9

Respiratory/Skin Sensitization:

INFORMATION NOT AVAILABLE.

Carcinogenicity:

INFORMATION NOT AVAILABLE.

Reproductive Toxicity:

INFORMATION NOT AVAILABLE.

Germ Cell Mutagenicity:

INFORMATION NOT AVAILABLE.

Aspiration Toxicity:

INFORMATION NOT AVAILABLE.

STOT-single exposure

INFORMATION NOT AVAILABLE.

STOT-repeated exposure

INFORMATION NOT AVAILABLE.

Routes of Exposure:

Inhalation of vapors, skin/eye/mucous membrane absorption, ingestion.

12. Ecological Information

Environmental Toxicity:

INFORMATION NOT AVAILABLE.

Persistence & degradability:

INFORMATION NOT AVAILABLE.

Bioaccumulative potential:

INFORMATION NOT AVAILABLE.

Mobility in soil:

INFORMATION NOT AVAILABLE.

Other Adverse Ecological Effects:

No information

13. Disposal Considerations

Waste Disposal Method:

Discharge, treatment or disposal is subject to national, state, or local laws.

When a decision is made to discard this

material as supplied, it meets RCRA's characteristic definition of ignitability.

The toxicity characteristic (TC) has

not been evaluated by the Toxicity Characteristic Leaching Procedure (TCLP).

Federal Regulations may apply to empty container. State and/or local

regulations may be different.

Of the methods of disposal currently available, it is recommended that an

alternative be selected according to the

following order of preference, based upon environmental acceptability: (1)

recycle or rework, if feasible; (2)

incinerate at an authorized facility; or (3) treat at an acceptable waste

treatment facility.

Be sure to contact the appropriate government environmental agencies if further guidance is required.

SAFETY DATA SHEET

Randolph Products Company

MIL-PRF-24635 TYPE V HARDENER - 0.8 QUART

Date Printed: 9/6/2019

Page 8 of 9

14. Transport Information

Domestic (Land, DOT), International (Water, IMO/IMDG), International (Air, ICAO)
Road and Rail (ADR/RID), Air (ICAO/IATA), Vessel (IMO/IMDG):

DOT (USA) Shipping Name: Not regulated by DOT, COMBUSTIBLE LIQUID*

UN/NA ID No: n/a

Hazard Class: n/a

Packing Group: n/a

*NOT REGULATED BY GROUND TRANSPORTATION IN NON-BULK PACKAGING (450L OR 119
GALLONS OR LESS) PER CFR 173.150 (f) (2).

IF SHIPPED BY AIR, VESSEL OR IN BULK THEN:

Shipping name: Paint

UN/NA ID No: UN1263

Hazard Class: 3

Packing Group: III

Environmental Hazards:

INFORMATION NOT AVAILABLE.

Marine Pollutant:

Components of this product do not appear on the list of Marine Pollutants (49CFR
172.101)

Special Precautions for User:

INFORMATION NOT AVAILABLE.

15. Regulatory Information

U.S. Federal Regulations:

TSCA: All components of this material are on the
US TSCA 8(b) Inventory or are exempt from listing.

OSHA:

This product is hazardous under OSHA's Hazard Communication Std. Not regarded
as a health hazard under current
legislation.

CERCLA: SARA Hazard Category:

INFORMATION NOT AVAILABLE.

Section 313:

"*" Indicates toxic chemical(s) subject to the reporting requirements of
section 313 of Title III and of 40 CFR 372.

International Regulations:

Canadian WHMIS:

INFORMATION NOT AVAILABLE.

Canadian Environmental Protection Act (CEPA):

INFORMATION NOT AVAILABLE.

EINECS:

INFORMATION NOT AVAILABLE.

State Regulations:

SAFETY DATA SHEET

Randolph Products Company

MIL-PRF-24635 TYPE V HARDENER - 0.8 QUART

Date Printed: 9/6/2019

Page 9 of 9

INFORMATION NOT AVAILABLE.

Volatile Organic Compounds:

COATING VOC content is being expressed as mass of VOC per unit volume of coating less water and exempt solvents, where applicable.

MATERIAL VOC content is the actual weight of VOC per unit volume.

16. Other Information

Date Revised: 09/04/19

Prepared By: Regulatory Compliance

Information Contact: Regulatory Compliance 413-592-4191 ext 106

Manufacturer Disclaimer:

USERS RESPONSIBILITY: A bulletin such as this cannot be expected to cover all possible individual situations. As the user has the responsibility to provide a safe workplace, all aspects of an individual operation should be examined to determine if, or where, precautions - in addition to those described herein - are required. Any health hazard and safety information herein should be passed on to your customers or employees, as the case may be.

DISCLAIMER OF LIABILITY: The information contained herein is, to the best of our knowledge and belief, accurate.

However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards

which exist. Final determination of suitability of the chemical is the sole responsibility of the user. No

representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or any

other nature are made hereunder with respect to the information contained herein or the chemical to which the

information refers. These data relate only to the specific material designated herein and do not relate to use in

combination with any other material. It is the responsibility of the user to comply with all applicable federal, state

and local laws and regulations.

End of Material Safety Data Sheet