635 Plus+ Moisture Vapor Treatment Hardener

Revision: 08/04/2020 Part B Supersedes Revision: 07/24/2015

Page: 1

Printed: 08/19/2020

1. Product and Company Identification

Product Code: 635-PLUS+MVT-B

Product Name: 635 Plus+ Moisture Vapor Treatment Hardener Part B

Key Resin Company **Company Name: Phone Number:** +1 (513)943-4225

4050 Clough Woods Dr.

Batavia, OH 45103

Chemtrec (USA) **Emergency Contact:** (800)424-9300

> Chemtrec (International) +1 (703)527-3887

Intended Use: Industrial floor coatings.

2. Hazards Identification

Acute Toxicity: Oral, Category 4 Acute Toxicity: Inhalation, Category 4 Skin Corrosion/Irritation, Category 1B

Serious Eye Damage/Eye Irritation, Category 1

Skin Sensitization, Category 1 Toxic To Reproduction, Category 2

Specific Target Organ Toxicity (repeated exposure), Category 2







Warning

Danger

Warning

GHS Hazard Phrases: H302 - Harmful if swallowed.

H314 - Causes severe skin burns and eye damage.

H317 - May cause an allergic skin reaction.

H332 - Harmful if inhaled.

H361 - Suspected of damaging fertility or the unborn child .

H373 - May cause damage to through prolonged or repeated exposure.

GHS Precaution Phrases: P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

P264 - Wash hands thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P271 - Use only outdoors or in a well-ventilated area.

P272 - Contaminated work clothing should not be allowed out of the workplace. P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P281 - Use personal protective equipment as required.

P273 - Avoid release to the environment.

P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P311 - Call a GHS Response Phrases:

POISON CENTER or doctor/physician.

P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. P333+313 - If skin irritation or rash occurs, seek

medical advice/attention.

P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P391 - Collect spillage.

GHS Storage and Disposal P405 - Store locked up.

Phrases: P501 - Dispose of contents/container to local, state, and federal authority requirements.

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GHS format

635 Plus+ Moisture Vapor Treatment Hardener Revision: 08/04/2020 Part B Supersedes Revision: 07/24/2015

This material is classified as hazardous under OSHA regulations. OSHA Regulatory Status:

Potential Health Effects Corrosive! Damages skin and eyes.

Inhalation: Vapors are irritating to the respiratory system, may cause throat pain and (Acute and Chronic):

Harmful if swallowed. This product may produce corrosive damage to the gastrointestinal tract if it is swallowed. Ingestion may produce burns to the lips, oral cavity, upper airway,

esophagus and possibly the digestive tract.

Inhalation: May cause respiratory irritation.

Skin Contact: Causes severe skin irritation. Causes skin burns. Eye Contact: Corrosive/irritation to eyes. Causes eye burns.

Harmful if swallowed. Ingestion:

Medical Conditions Generally Skin disorders, Respiratory disorders, Eye disorders, Skin Allergies.

Aggravated By Exposure:

3. Composition/Information on Ingredients

CAS#	Hazardous Components (Chemical Name)	Concentration
1477-55-0	1,3-Benzenedimethanamine	25 - 50 %
98-54-4	4-tert-Butylphenol	25 - 50 %
1761-71-3	Cyclohexylamine, 4,4'-methylenebis-	<10 %
25513-64-8	1,6-Hexanediamine, 2,2,4(or 2,4,4)-trimethyl-	<5.0 %
135108-88-2	Formaldehyde, polymer with benzenamine, hydrogenated	<5.0 %

4. First Aid Measures

Emergency and First Aid

Procedures:

In Case of Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is

difficult, give oxygen. If experiencing respiratory symptoms: Get medical attention

immediately.

In case of contact, immediately wash skin with soap and copious amounts of water. In Case of Skin Contact:

Remove contaminated clothing and shoes. Get medical attention if irritation develops or

persists.

In Case of Eye Contact: In case of contact with eyes, flush with copious amounts of water for at least 15 minutes.

Assure adequate flushing by separating the eyelids with fingers. Get medical attention

immediately.

If swallowed, wash out mouth with water provided person is conscious. Do not induce In Case of Ingestion:

vomiting. Never induce vomiting or give anything by mouth if the victim is unconscious or

having convulsions. Get medical attention immediately.

Signs and Symptoms Of

Exposure:

Eyes: Symptoms may include discomfort or pain, excess blinking and tear production,

with marked redness and swelling of the conjunctiva.

Skin: Can cause severe skin burns. Symptoms may include redness, edema, drying,

defatting and cracking of the skin.

Inhalation: Vapors are irritating to the respiratory system, may cause throat pain and

cough.

Page: 2

Printed: 08/19/2020

635 Plus+ Moisture Vapor Treatment Hardener

Printed: 08/19/2020

Part B Revision: 08/04/2020

Supersedes Revision: 07/24/2015

Page: 3

5. Fire Fighting Measures

Flash Pt: > 195.00 F (90.6 C) Method Used: Pensky-Marten Closed Cup

Explosive Limits: LEL: NE UEL: NE

Autoignition Pt: No data.

Suitable Extinguishing Media:CO2, dry chemical, dry sand, alcohol-resistant foam.

Unsuitable Extinguishing

Do not use a direct water stream, which may spread fire.

Media:

Fire Fighting Instructions: Protective Equipment: Wear self-contained breathing apparatus and protective clothing

to prevent contact with skin and eyes.

Flammable Properties and

Hazards:

Combustible material: may burn but does not ignite readily.

6. Accidental Release Measures

Protective Precautions, Protective Equipment and Emergency Procedures: Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves. Where splashing is possible, full chemically resistant protective clothing, and boots are required.

Environmental Precautions: Steps To Be Taken In Case Prevent entry into waterways, sewers, basements or confined areas. PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL.

Material Is Released Or Spilled:

Absorb with sand or vermiculite and place in closed containers for disposal. Ventilate the

area.

7. Handling and Storage

Precautions To Be Taken in

Handling:

Provide adequate ventilation. Wear all personal protection required in section 8.

Precautions To Be Taken in

Storing:

Keep container tightly closed in a dry and well-ventilated place. Store away from

incompatible material.

Other Precautions: Wash thoroughly after handling.

8. Exposure Controls/Personal Protection

CAS#	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits					
1477-55-0	1,3-Benzenedimethanamine	No data.	CEIL: mg/m3	No data.					
98-54-4	4-tert-Butylphenol	No data.	No data.	No data.					
1761-71-3	Cyclohexylamine, 4,4'-methylenebis-	No data.	No data.	No data.					
25513-64-8	1,6-Hexanediamine, 2,2,4(or 2,4,4)-trimethyl-	No data.	No data.	No data.					
135108-88-2	Formaldehyde, polymer with benzenamine, hydrogenated	No data.	No data.	No data.					

Respiratory Equipment (Specify Type):

Normally when good engineering controls are used, no respiratory protection is needed. However, if cured product is abraded by sanding or grinding use a NIOSH approved air-purifying respirator. Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

Eye Protection: Safety glasses, or goggles.

Protective Gloves: Nitrile rubber and Neoprene are recommended.

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635 Plus+ Moisture Vapor Treatment Hardener
Part B

ener Printed: 08/19/2020 Revision: 08/04/2020 Supersedes Revision: 07/24/2015

Page: 4

Other Protective Clothing: Where splashing is possible

Where splashing is possible, full chemically resistant protective clothing, safety glasses

or face shield and boots are required.

Engineering Controls

Good general ventilation should be sufficient to control airborne levels. Safety shower

(Ventilation etc.): and eye bath.

Work/Hygienic/Maintenance

Wash contaminated clothing before reuse. Discard contaminated shoes. Wash

Practices:

thoroughly after handling.

Environmental Exposure

Controls:

Avoid runoff into storm sewers and ditches which lead to waterways.

9. Physical and Chemical Properties

Physical States: [] Gas [X] Liquid [] Solid

Appearance and Odor: Odor: Liquid.

Appearance: Yellowish.

Melting Point: NE

Boiling Point: > 95.00 F (35.0 C)

Decomposition Temperature: NE **Autoignition Pt:** No data.

Flash Pt: > 195.00 F (90.6 C) Method Used: Pensky-Marten Closed Cup

Explosive Limits: LEL: NE UEL: NE

Specific Gravity (Water = 1): $\sim .95 - 1.05$

Density: ~ 7.923 - 8.757 LB/GL

Vapor Pressure (vs. Air or

NE

mm Hg):

Vapor Density (vs. Air = 1): NE
Evaporation Rate: NE
Solubility in Water: No data.

Solubility Notes: Partial solubility.

Saturated Vapor NE

Concentration:

Percent Volatile: N.A.

VOC / Volume: NP

10. Stability and Reactivity

Reactivity: Avoid: acids, Avoid uncontrolled contact with isocyanates. Avoid: Uncontrolled reactions

with epoxies.

Stability: Unstable [] Stable [X]

Conditions To Avoid -

Extreme temperatures.

Instability:

Incompatibility - Materials To Avoid strong acids, bases, and oxidizing agents.

Avoid:

Hazardous Decomposition Or Thermal decomposition may produce smoke, carbon monoxide, carbon dioxide,

Byproducts: aldehydes. Nitrogen oxides.

Possibility of Hazardous

Will occur [] Will not occur [X]

Polymerization:

Conditions To Avoid - Will not undergo hazardous polymerization in normal storage conditions.

Hazardous Reactions:

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Printed: 08/19/2020 635 Plus+ Moisture Vapor Treatment Hardener

Revision: 08/04/2020 Part B Supersedes Revision: 07/24/2015

Page: 5

11. Toxicological Information

Toxicological Information: May cause sensitization by skin contact. Corrosive! Damages skin and eyes. Irritation or Corrosion:

Symptoms related to May cause sensitization by skin contact. May cause skin irritation or burns.

Toxicological

Characteristics:

Can cause eye irritation or burns.

Chronic Toxicological

Effects:

Skin sensitization.

12. Ecological Information

General Ecological Avoid release to the environment. Do not empty into drains. May be hazardous to the

Information: environment if released in large quantities.

Results of PBT and vPvB

assessment:

No data available.

Persistence and

Not readily biodegradable.

Degradability:

Bioaccumulative Potential: No data available. Mobility in Soil: not reported, unknown.

13. Disposal Considerations

Waste Disposal Method: Incinerate or dispose of unused material, residues and containers in a licensed facility in

accordance with all applicable local, state and federal regulations. Do not discharge

substance/product into sewage system.

14. Transport Information

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Amines, Liquid, Corrosive n.o.s. (Contains Modified Aliphatic Amines)

DOT Hazard Class: 8 **CORROSIVE**

UN2735 Ш **UN/NA Number:** Packing Group:

Corrosive! Damages skin and eyes. May cause sensitization by skin contact. May be **Precautionary Label:**

harmful if swallowed.



MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name: Amines, Liquid, Corrosive n.o.s. (Contains Modified Aliphatic Amines) Ш **UN Number:** 2735 **Packing Group:**

8 - CORROSIVE **Hazard Class:**

IMDG EMS Number: FA,SB **IMDG MFAG Number:**

IMDG EMS Page: No

AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Amines, Liquid, Corrosive n.o.s. (Contains Modified Aliphatic Amines)

Page: 6 Printed: 08/19/2020

635 Plus+ Moisture Vapor Treatment Hardener Part B

Revision: 08/04/2020 Supersedes Revision: 07/24/2015

15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS#	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
1477-55-0	1,3-Benzenedimethanamine	No	No	No
98-54-4	4-tert-Butylphenol	No	No	No
1761-71-3	Cyclohexylamine, 4,4'-methylenebis-	No	No	No
25513-64-8	1,6-Hexanediamine, 2,2,4(or 2,4,4)-trimethyl-	No	No	No
135108-88-2	Formaldehyde, polymer with benzenamine, hydrogenated	No	No	No

This material meets the EPA [X] Yes [] No Acute (immediate) Health Hazard 'Hazard Categories' defined [X] Yes [] No Chronic (delayed) Health Hazard

for SARA Title III Sections [X] Yes [] No Fire Hazard

311/312 as indicated: [] Yes [X] No Sudden Release of Pressure Hazard

[] Yes [X] No Reactive Hazard

Regulatory Information: SARA Section 311/312: Acute, Chronic Health Hazard.

16. Other Information

Revision Date: 08/04/2020

Hazard Rating System:



HMIS:

Additional Information About CA=CIRCA NA=NOT AVAILABLE NE=NOT ESTABLISHED NR=NOT REGULATED This Product: NP= NOT APPLICABLE PR=PROPRIETARY TS=TRADE SECRET ?=UNKNOWN.

Company Policy or

Disclaimer: of the date hereof; however the Key Resin Company makes no expressed or implied

warranty in respect to the accuracy of the information or the suitability of the

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