

EPOCAST® 1652 A US

Version Revision Date: SDS Number: Date of last issue: 05/06/2016 1.1 05/06/2016 400001008248 Date of first issue: 05/06/2016

SECTION 1. IDENTIFICATION

Product name : EPOCAST® 1652 A US

Freeman 360°
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Manufacturer or supplier's details

Company name of supplier

: Huntsman Advanced Materials Americas LLC

Address

P.O. Box 4980 The Woodlands,

TX 77387

United States of America

Telephone : Non-Emergency: (800) 257-5547

E-mail address of person responsible for the SDS

: MSDS@huntsman.com

Emergency telephone : Chemtrec: (800) 424-9300 or (703) 527-3887

Recommended use of the chemical and restrictions on use

Recommended use : Epoxy constituents

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Skin irritation : Category 2

Eye irritation : Category 2A

Skin sensitization : Category 1

Acute aquatic toxicity : Category 2

Chronic aquatic toxicity : Category 2

GHS Label element

Hazard pictograms





Signal Word : Danger

Hazard Statements : H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements : Prevention:

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.



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P272 Contaminated work clothing must not be allowed out of

the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/

face protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

P333 + P313 If skin irritation or rash occurs: Get medical advice/

attention.

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

attention.

P362 Take off contaminated clothing and wash before reuse.

P391 Collect spillage.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous ingredients

Chemical Name	CAS-No.	Concentration (%)
Bisphenol A epoxy resin	25068-38-6	>= 30 - <= 60
epoxy phenol novolac resin	28064-14-4	>= 13 -<= 30

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.

Show this material safety data sheet to the doctor in

attendance.

Do not leave the victim unattended.

If inhaled : If unconscious place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact : If skin irritation persists, call a physician.

If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.



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If swallowed : Keep respiratory tract clear.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Most important symptoms and effects, both acute and

delayed

: None known.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : No data is available on the product itself.

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during fire

fighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

: No data is available on the product itself.

Specific extinguishing

methods

: No data is available on the product itself.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment

for fire-fighters

Wear self-contained breathing apparatus for firefighting if

necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.

Environmental precautions

: Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against

fire and explosion

: Normal measures for preventive fire protection.





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Advice on safe handling : Do not breathe vapors/dust.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Dispose of rinse water in accordance with local and national

regulations.

Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated

place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage.

Electrical installations / working materials must comply with

the technological safety standards.

Materials to avoid : Strong acids

Strong bases

Strong oxidizing agents

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally

required.

Hand protection

Material : butyl-rubber

Break through time : > 8 h

Solvent-resistant gloves (butyl-rubber)

Nitrile rubber 10 - 480 min

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles.

Wear face-shield and protective suit for abnormal processing

problems.

Skin and body protection : impervious clothing

Choose body protection according to the amount and



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concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : paste

Color : white

Odor : slight

Odor Threshold : No data is available on the product itself.

pH : No data is available on the product itself.

Flash point : 143 °C

Method: Pensky-Martens closed cup, closed cup

Evaporation rate : No data is available on the product itself.

Flammability (solid, gas) : No data is available on the product itself.

Upper explosion limit : No data is available on the product itself.

Lower explosion limit : No data is available on the product itself.

Vapor pressure : < 1 hPa (20 °C)

Relative vapor density : No data is available on the product itself.

Relative density : No data is available on the product itself.

Density : 0.7 g/cm3 (25 °C)

Solubility(ies)

Water solubility : practically insoluble (20 °C)

Solubility in other solvents : No data is available on the product itself.

Partition coefficient: n-

octanol/water

: No data is available on the product itself.

Autoignition temperature : No data is available on the product itself.

Decomposition temperature : > 200 °C

Viscosity : No data is available on the product itself.

Self-Accelerating

decomposition temperature

: No data is available on the product itself.



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(SADT)

SECTION 10. STABILITY AND REACTIVITY

: No decomposition if stored and applied as directed. Reactivity : No decomposition if stored and applied as directed. Chemical stability Possibility of hazardous : No decomposition if stored and applied as directed.

reactions

Conditions to avoid No data available

Hazardous decomposition

products

: Carbon oxides

Burning produces obnoxious and toxic fumes.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of : No data is available on the product itself.

exposure

Acute toxicity

Ingredients:

Bisphenol A epoxy resin:

Acute oral toxicityIngredients : LD50 (Rat, female): > 2,000 mg/kg

Method: OECD Test Guideline 420

Assessment: The substance or mixture has no acute oral

toxicity

epoxy phenol novolac resin:

LD50 (Rat, female): > 2,000 mg/kg Acute oral toxicityIngredients

Method: OECD Test Guideline 420

Assessment: The substance or mixture has no acute oral

toxicity

Acute inhalation toxicity : No data available

Ingredients:

Bisphenol A epoxy resin:

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

toxicity

epoxy phenol novolac resin:

: LD50 (Rat, male and female): > 2,000 mg/kg Acute dermal toxicity

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

toxicity

Acute toxicity (other routes of : No data available

administration)



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Skin corrosion/irritation

Product:

Remarks: May cause skin irritation and/or dermatitis.

Serious eye damage/eye irritation

Product:

Remarks: May cause irreversible eye damage.

Respiratory or skin sensitization

Product:

Remarks: Causes sensitization.

Assessment: No data available

Germ cell mutagenicity

Ingredients:

Bisphenol A epoxy resin:

Genotoxicity in vitro : Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: positive

Concentration: 0 - 5000 ug/plate

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: positive

epoxy phenol novolac resin:

Genotoxicity in vitro Metabolic activation: with and without metabolic activation

Result: positive

Concentration: 0 - 5000 ug/plate

Metabolic activation: with and without metabolic activation

Result: positive

Ingredients:

Bisphenol A epoxy resin:

Genotoxicity in vivo : Cell type: Germ

Application Route: Oral

Method: OECD Test Guideline 478

Result: negative

Cell type: Somatic Application Route: Oral Dose: 0 - 5000 mg/kg Method: OPPTS 870.5395

Result: negative

epoxy phenol novolac resin:

Cell type: Germ Genotoxicity in vivo

Application Route: Oral Result: negative





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> Cell type: Somatic Application Route: Oral Dose: 0 - 5000 mg/kg Result: negative

Ingredients:

Bisphenol A epoxy resin:

Germ cell mutagenicity-

Assessment

: Weight of evidence does not support classification as a germ

cell mutagen.

Germ cell mutagenicity-

Assessment

: No data available

Carcinogenicity

Ingredients:

Bisphenol A epoxy resin:

Species: Rat, (male and female)

Application Route: Oral Exposure time: 24 month(s)

Dose: 15 mg/kg

Frequency of Treatment: 7 days/week Method: OECD Test Guideline 453

Result: negative

Species: Mouse, (male)
Application Route: Dermal
Exposure time: 24 month(s)

Dose: 0.1 mg/kg

Frequency of Treatment: 3 days/week Method: OECD Test Guideline 453

Result: negative

Species: Rat, (female)
Application Route: Dermal
Exposure time: 24 month(s)

Dose: 1 mg/kg

Frequency of Treatment: 5 days/week Method: OECD Test Guideline 453

Result: negative

epoxy phenol novolac resin: Species: Rat, (male and female)

Application Route: Oral Exposure time: 24 month(s)

Dose: 15 mg/kg

Frequency of Treatment: 7 daily Method: OECD Test Guideline 453

Result: negative

Species: Mouse, (male) Application Route: Dermal Exposure time: 24 month(s)



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Dose: .1 mg/kg

Frequency of Treatment: 3 daily Method: OECD Test Guideline 453

Result: negative

Species: Rat, (female)
Application Route: Dermal
Exposure time: 24 month(s)

Dose: 1 mg/kg

Frequency of Treatment: 5 daily Method: OECD Test Guideline 453

Result: negative

Carcinogenicity - Assessment : No data available

ACGIH Suspected human carcinogen

cristobalite

Reproductive toxicity

Ingredients:

Bisphenol A epoxy resin:

Effects on fertility : Test Type: Two-generation study

Species: Rat, male and female

Application Route: Oral

Dose: >750 milligram per kilogram

General Toxicity Parent: No-observed-effect level: 540 mg/kg

body weight

General Toxicity F1: No-observed-effect level: 540 mg/kg

body weight

Symptoms: No adverse effects. Method: OECD Test Guideline 416

Result: No effects on fertility and early embryonic

development were detected.

epoxy phenol novolac resin:

Species: Rat, male and female

Application Route: Oral

Method: OECD Test Guideline 416

Result: No effects on fertility and early embryonic

development were detected.

Ingredients:

Bisphenol A epoxy resin:

Effects on fetal development : Species: Rabbit, female

Application Route: Dermal

General Toxicity Maternal: NOAEL (No observed adverse

effect level): 30 mg/kg body weight

Method: Other guidelines Result: No teratogenic effects.

Species: Rabbit, female Application Route: Oral





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General Toxicity Maternal: NOAEL (No observed adverse

effect level): 60 mg/kg body weight Method: OECD Test Guideline 414 Result: No teratogenic effects.

Species: Rat, female Application Route: Oral

General Toxicity Maternal: NOAEL (No observed adverse

effect level): 180 mg/kg body weight Method: OECD Test Guideline 414 Result: No teratogenic effects.

epoxy phenol novolac resin:

Species: Rabbit, female Application Route: Dermal

General Toxicity Maternal: NOAEL (No observed adverse

effect level): 30 mg/kg body weight Result: No teratogenic effects.

Species: Rabbit, female Application Route: Oral

General Toxicity Maternal: NOAEL (No observed adverse

effect level): 60 mg/kg body weight Method: OECD Test Guideline 414 Result: No teratogenic effects.

Species: Rat, female Application Route: Oral

General Toxicity Maternal: NOAEL (No observed adverse

effect level): 180 mg/kg body weight Method: OECD Test Guideline 414 Result: No teratogenic effects.

Reproductive toxicity -

Assessment

: No data available

STOT-single exposure

No data available

STOT-repeated exposure

No data available

Repeated dose toxicity

Ingredients:

Bisphenol A epoxy resin: Species: Rat, male and female

NOAEL (No observed adverse effect level): 50 mg/kg

Application Route: Ingestion Exposure time: 14 Weeks Number of exposures: 7 d Method: Subchronic toxicity

Species: Rat, male and female



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No-observed-effect level: 10 mg/kg Application Route: Skin contact Exposure time: 13 Weeks Number of exposures: 5 d Method: Subchronic toxicity

Species: Mouse, male

NOAEL (No observed adverse effect level): 100 mg/kg

Application Route: Skin contact Exposure time: 13 Weeks Number of exposures: 3 d Method: Subchronic toxicity

epoxy phenol novolac resin: Species: Rat, male and female

NOAEL (No observed adverse effect level): 50 mg/kg

Application Route: Ingestion Exposure time: 14 Weeks Number of exposures: 7 d Method: Subchronic toxicity

Species: Rat, male and female No-observed-effect level: 10 mg/kg Application Route: Skin contact Exposure time: 13 Weeks Number of exposures: 5 d Method: Subchronic toxicity

Species: Mouse, male

NOAEL (No observed adverse effect level): 100 mg/kg

Application Route: Skin contact Exposure time: 13 Weeks Number of exposures: 3 d Method: Subchronic toxicity

Repeated dose toxicity -

: No data available

Assessment

Aspiration toxicity

No data available

Experience with human exposure

General Information: No data available

Inhalation: No data available

Skin contact: No data available

Eye contact: No data available



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Ingestion: No data available

Toxicology, Metabolism, Distribution

No data available

Neurological effects

No data available

Further information

Product:

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Ingredients:

Bisphenol A epoxy resin:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1.5 mg/l

Exposure time: 96 h Test Type: static test

Test substance: Fresh water Method: OECD Test Guideline 203

epoxy phenol novolac resin:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1.5 mg/l

Exposure time: 96 h Test Type: static test

Test substance: Fresh water Method: OECD Test Guideline 203

Ingredients:

Bisphenol A epoxy resin:

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 2.7 mg/l

Exposure time: 48 h Test Type: static test

Test substance: Fresh water

epoxy phenol novolac resin:

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 1.7 mg/l

Exposure time: 48 h Test Type: static test

Test substance: Fresh water Method: OECD Test Guideline 202

EC50 (Daphnia magna (Water flea)): 2.7 mg/l

Exposure time: 48 h Test Type: static test

Test substance: Fresh water



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Ingredients:

Bisphenol A epoxy resin:

Toxicity to algae : EC50 (Selenastrum capricornutum (green algae)): 9.4 mg/l

Exposure time: 72 h
Test Type: static test

Test substance: Fresh water Method: EPA-660/3-75-009

epoxy phenol novolac resin:

Toxicity to algae : EC50 (Selenastrum capricornutum (green algae)): 9.4 mg/l

Exposure time: 72 h
Test Type: static test

Test substance: Fresh water

M-Factor (Acute aquatic

toxicity)

: No data available

Ingredients:

epoxy phenol novolac resin:

Toxicity to fish (Chronic

toxicity)

: GLP: yes

Ingredients:

Bisphenol A epoxy resin:

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: NOEC (Daphnia magna (Water flea)): 0.3 mg/l

Exposure time: 21 d
Test Type: semi-static test
Test substance: Fresh water
Method: OECD Test Guideline 211

epoxy phenol novolac resin:

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: NOEC (Daphnia magna (Water flea)): 0.3 mg/l

Exposure time: 21 d
Test Type: semi-static test
Test substance: Fresh water
Method: OECD Test Guideline 211

M-Factor (Chronic aquatic

toxicity)

: No data available

Ingredients:

Bisphenol A epoxy resin:

Toxicity to bacteria : IC50 (activated sludge): > 100 mg/l

Exposure time: 3 h
Test Type: static test
Test substance: Fresh water

epoxy phenol novolac resin:

Toxicity to bacteria : IC50 (activated sludge): > 100 mg/l

Exposure time: 3 h Test Type: static test

Test substance: Fresh water



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Toxicity to soil dwelling

organisms

: No data available

Plant toxicity : No data available

Sediment toxicity : No data available

Toxicity to terrestrial

organisms

: No data available

Ecotoxicology Assessment

Acute aquatic toxicity : No data available

Chronic aquatic toxicity : No data available

No data available Toxicity Data on Soil

Other organisms relevant to

the environment

: No data available

Further information: No data available

Persistence and degradability

Ingredients:

Bisphenol A epoxy resin:

: Inoculum: Sewage (STP effluent) Biodegradability

Concentration: 20 mg/l

Result: Not readily biodegradable.

Biodegradation: 5 % Exposure time: 28 d

Method: OECD Test Guideline 301F

epoxy phenol novolac resin:

Biodegradability Inoculum: Sewage (STP effluent)

Concentration: 20 mg/l

Result: Not readily biodegradable.

Biodegradation: 5 % Exposure time: 28 d

Method: OECD Test Guideline 301F

Biochemical Oxygen

Demand (BOD)

: No data available

Chemical Oxygen Demand

(COD)

: No data available

BOD/COD : No data available

ThOD No data available

BOD/ThOD No data available

Dissolved organic carbon : No data available



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(DOC)

Physico-chemical

removability

: No data available

Stability in water : No data available

Photodegradation : No data available

Impact on Sewage

Treatment

: No data available

Bioaccumulative potential

Ingredients:

Bisphenol A epoxy resin:

Bioaccumulation : Bioconcentration factor (BCF): 31

Remarks: Does not bioaccumulate.

epoxy phenol novolac resin:

Bioaccumulation : Bioconcentration factor (BCF): 31

Remarks: Does not bioaccumulate.

Ingredients:

Bisphenol A epoxy resin:

Partition coefficient: n- : log Pow: 3.242 (25 °C)

octanol/water pH: 7.1

Method: OECD Test Guideline 117

epoxy phenol novolac resin:

Partition coefficient: n-

octanol/water

: log Pow: 3.242 (25 °C)

pH: 7.1

Method: OECD Test Guideline 117

Mobility in soil

Mobility : No data available

Ingredients:

Bisphenol A epoxy resin:

Distribution among

environmental compartments

: Koc: 445.

environmental compartments epoxy phenol novolac resin:

Distribution among

: Koc: 445.

environmental compartments

Stability in soil

: No data available

Other adverse effects

Environmental fate and

pathways

: No data available

Results of PBT and vPvB

assessment

: No data available



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Endocrine disrupting

potential

: No data available

Adsorbed organic bound

halogens (AOX)

: No data available

Hazardous to the ozone layer

Ozone-Depletion Potential

Not applicable

Additional ecological

information - Product

: An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Toxic to aquatic life with long lasting effects.

Global warming potential

(GWP)

: No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Send to a licensed waste management company.

Contaminated packaging Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International Regulation

TDG

UN number : UN 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(BISPHENOL A EPOXY RESIN, EPOXY PHENOL

NOVOLAC RESIN)

: 9 Class Packing group : 111 9 Labels

IATA

UN/ID No. : UN 3082

Proper shipping name Environmentally hazardous substance, liquid, n.o.s.

(BISPHENOL A EPOXY RESIN, EPOXY PHENOL

NOVOLAC RESIN)



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Class : 9 Packing group Ш

Labels Miscellaneous

Packing instruction (cargo

aircraft)

Packing instruction 964

(passenger aircraft)

IMDG

: UN 3082 **UN** number

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

964

(BISPHENOL A EPOXY RESIN, EPOXY PHENOL

NOVOLAC RESIN)

Class 9 Packing group Ш Labels 9 EmS Code F-A, S-F Marine pollutant ves

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

TDG

UN number : UN 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(BISPHENOL A EPOXY RESIN, EPOXY PHENOL

NOVOLAC RESIN)

Class 9 Packing group : 111 9 Labels **ERG Code** 171

Marine pollutant : yes(BISPHENOL A EPOXY RESIN)

SECTION 15. REGULATORY INFORMATION

TSCA - 5(a) Significant New : Not relevant

Use Rule List of Chemicals

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

The ingredients of this product are reported in the following inventories:

CH INV The mixture contains substances listed on the Swiss Inventory

TSCA On TSCA Inventory

DSL All components of this product are on the Canadian DSL. **AICS** On the inventory, or in compliance with the inventory

not determined **NZIoC**

ENCS On the inventory, or in compliance with the inventory ISHL On the inventory, or in compliance with the inventory



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KECI On the inventory, or in compliance with the inventory **PICCS** On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory **IECSC**

SECTION 16. OTHER INFORMATION

Further information

NFPA: Flammability nstability Health 0 2

Special hazard.

HMIS III:

HEALTH	2
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High

4 = Extreme, * = Chronic

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HUNTSMAN PRODUCTS. DATA SHEETS FROM UNAUTHORIZED SOURCES MAY CONTAIN INFORMATION THAT IS NO LONGER CURRENT OR ACCURATE.



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SECTION 1. IDENTIFICATION

Product name : EPOCAST® 1652 B US

Manufacturer or supplier's details

Company name of supplier

: Huntsman Advanced Materials Americas LLC

Address

The Woodlands,

TX 77387

United States of America

Telephone : Non-Emergency: (800) 257-5547

E-mail address of person responsible for the SDS

: MSDS@huntsman.com

Emergency telephone : Chemtrec: (800) 424-9300 or (703) 527-3887

Recommended use of the chemical and restrictions on use

Recommended use : Hardener

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 4

Acute toxicity (Inhalation) : Category 4

Skin corrosion : Category 1B

Serious eye damage : Category 1

Respiratory sensitization : Category 1

Skin sensitization : Category 1

GHS Label element

Hazard pictograms







Signal Word : Danger

Hazard Statements : H227 Combustible liquid.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing

difficulties if inhaled.



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Precautionary Statements

: Prevention:

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

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

P272 Contaminated work clothing must not be allowed out of the workplace.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P285 In case of inadequate ventilation wear respiratory protection.

Response:

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

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician.

P363 Wash contaminated clothing before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool. P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous ingredients

Chemical Name	CAS-No.	Concentration (%)
Formaldehyde, reaction products with hexahydro-1,3-isobenzofurandione and	68478-68-2	60 - 100
triethylenetetramine		
2-dimethylaminoethanol	108-01-0	13 - 30
hexahydrophthalic anhydride	85-42-7	0.1 - 1



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SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.

Consult a physician.

Show this material safety data sheet to the doctor in

attendance.

Do not leave the victim unattended.

Call a physician or poison control center immediately. If inhaled

If unconscious place in recovery position and seek medical

advice.

In case of skin contact Immediate medical treatment is necessary as untreated

wounds from corrosion of the skin heal slowly and with

If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact Small amounts splashed into eyes can cause irreversible

tissue damage and blindness.

In the case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

Continue rinsing eyes during transport to hospital.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed Keep respiratory tract clear.

Do NOT induce vomiting.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician. Take victim immediately to hospital.

Most important symptoms and effects, both acute and

delayed

: None known.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : No data is available on the product itself.

Carbon dioxide (CO2)

Unsuitable extinguishing

media

: High volume water jet

No data is available on the product itself.

Specific hazards during fire

fighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion : No data is available on the product itself.



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Specific extinguishing

methods

: No data is available on the product itself.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored

separately in closed containments.

Use a water spray to cool fully closed containers.

Special protective equipment

for fire-fighters

: Wear self-contained breathing apparatus for firefighting if

necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

: Use personal protective equipment.

Ensure adequate ventilation.

Environmental precautions : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and 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 / national regulations (see section 13). Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against

fire and explosion

Do not spray on a naked flame or any incandescent material. Keep away from open flames, hot surfaces and sources of

ianition.

Avoid formation of aerosol. Advice on safe handling

Do not breathe vapors/dust.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Provide sufficient air exchange and/or exhaust in work rooms. To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national

regulations.

Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.





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Conditions for safe storage : No smoking.

Keep in a well-ventilated place. Observe label precautions.

Electrical installations / working materials must comply with

the technological safety standards.

Materials to avoid : Strong acids

Strong bases

Strong oxidizing agents

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Personal protective equipment

Respiratory protection : In the case of vapor formation use a respirator with an

approved filter.

Hand protection

Material : butyl-rubber

Break through time : > 8 h

Solvent-resistant gloves (butyl-rubber)

Nitrile rubber 10 - 480 min

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles.

Wear face-shield and protective suit for abnormal processing

problems.

Skin and body protection : impervious clothing

Choose body protection according to the amount and

concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Color : amber

Odor : amine-like



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Odor Threshold : No data is available on the product itself.

Hq No data is available on the product itself.

Flash point : 63 °C

Method: closed cup

Evaporation rate : No data is available on the product itself.

Flammability (solid, gas) : No data is available on the product itself.

Upper explosion limit : No data is available on the product itself.

Lower explosion limit : No data is available on the product itself.

Vapor pressure : No data is available on the product itself.

Relative vapor density : No data is available on the product itself.

Relative density : 1.1

: 0.98 g/cm3 (25 °C) Density

Solubility(ies)

practically insoluble (20 °C) Water solubility

Solubility in other solvents : No data is available on the product itself.

Partition coefficient: n-

octanol/water

: No data is available on the product itself. Autoignition temperature

: > 200 °C Decomposition temperature

Viscosity

Viscosity, dynamic : 500 mPa.s (25 °C)

Self-Accelerating

decomposition temperature

(SADT)

: No data is available on the product itself.

: No data is available on the product itself.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed. Chemical stability No decomposition if stored and applied as directed.

Possibility of hazardous

reactions

No decomposition if stored and applied as directed.

Vapors may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.

Hazardous decomposition : Carbon oxides



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products

Burning produces obnoxious and toxic fumes.

Nitrogen oxides (NOx)

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of : No data is available on the product itself.

exposure

Acute toxicity

Ingredients:

2-dimethylaminoethanol: Acute oral toxicityIngredients

: LD50 (Rat, male and female): 1,182.7 mg/kg

Method: OECD Test Guideline 401

hexahydrophthalic anhydride:

Acute oral toxicityIngredients : LD50 (Rat): 4,040 mg/kg

Method: Other guidelines

Assessment: The substance or mixture has no acute oral

toxicity

Ingredients:

2-dimethylaminoethanol:

Acute inhalation toxicity : LC50 (Rat, male and female): 1641 ppm

> Exposure time: 4 h Test atmosphere: vapor

Method: OECD Test Guideline 403

hexahydrophthalic anhydride:

Acute inhalation toxicity : LC50 (Rat, male and female): > 1.100 mg/m3

Exposure time: 4 h

Test atmosphere: dust/mist Method: No information available.

Ingredients:

2-dimethylaminoethanol:

Acute dermal toxicity : LD50 (Rabbit, male): 1,219 mg/kg

Method: OECD Test Guideline 402

hexahydrophthalic anhydride:

Acute dermal toxicity : LD50 Dermal (Rabbit, male and female): > 2,000 mg/kg

Method: OECD Test Guideline 402

GLP: yes

Assessment: The substance or mixture has no acute dermal

toxicity

Acute toxicity (other routes of : No data available

administration)





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Skin corrosion/irritation

Product:

Remarks: Extremely corrosive and destructive to tissue.

Serious eye damage/eye irritation

Product:

Remarks: May cause irreversible eye damage.

Respiratory or skin sensitization

Product:

Remarks: Causes sensitization.

Assessment: No data available

Germ cell mutagenicity

Ingredients:

2-dimethylaminoethanol:

Genotoxicity in vitro

: Concentration: <= 5000 ug/plate

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Concentration: <= 10000 ug/plate

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 479

Result: negative

hexahydrophthalic anhydride:

Genotoxicity in vitro

Test Type: Chromosome aberration test in vitro

Species: Human lymphocytes

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative GLP: yes

Test Type: Ames test

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

GLP: yes

Test Type: In vitro mammalian cell gene mutation test





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Species: mouse lymphoma cells

Metabolic activation: with and without metabolic activation

Method: OFCD Test Guideline 476

Result: negative GLP: yes

Ingredients:

2-dimethylaminoethanol:

Genotoxicity in vivo : Application Route: Intraperitoneal injection

Dose: 75 mg/kg

Method: OECD Test Guideline 474

Result: negative

Application Route: Intraperitoneal injection

Dose: 270 - 860 mg/kg

Method: OECD Test Guideline 474

Result: negative

Carcinogenicity

No data available

Carcinogenicity -Assessment

: No data available

ACGIH

No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by ACGIH.

Reproductive toxicity

Ingredients:

hexahydrophthalic anhydride:

Effects on fertility

Species: Rat, male and female

Application Route: Oral

Dose: 0, 100, 300, 1000 mg/kg Frequency of Treatment: 1 daily

General Toxicity Parent: 1,000 mg/kg body weight

Method: OECD Test Guideline 421

Result: Animal testing did not show any effects on fertility.

GLP: yes

Ingredients:

2-dimethylaminoethanol:

Effects on fetal development Species: Rat, male and female

Application Route: Inhalation

General Toxicity Maternal: NOAEL (No observed adverse

effect level): 10 ppm

Method: OECD Test Guideline 414 Result: No teratogenic effects.

hexahydrophthalic anhydride:

Species: Rat, male and female

Application Route: Oral

Dose: 0, 100, 300 and 1000 mg/kg bo





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Frequency of Treatment: 1 daily

General Toxicity Maternal: LOAEL (Lowest observed adverse

effect level): 300 mg/kg body weight

Developmental Toxicity: NOAEL (No observed adverse effect

level): 1,000 mg/kg body weight Method: OECD Test Guideline 421

Result: No adverse effects.

GLP: yes

Reproductive toxicity -

Assessment

: No data available

STOT-single exposure

Ingredients:

2-dimethylaminoethanol:

Target Organs: Respiratory Tract

Assessment: The substance or mixture is classified as specific target organ toxicant, single

exposure, category 3 with respiratory tract irritation.

STOT-repeated exposure

No data available

Repeated dose toxicity

Ingredients:

2-dimethylaminoethanol: Species: Rat, male and female

NOEC: 87.5 mg/m3 Test atmosphere: vapor Exposure time: 13 Weeks

Method: OECD Test Guideline 413

hexahydrophthalic anhydride: Species: Rat, male and female

NOAEL: 100 mg/kg Application Route: Oral Exposure time: 6 Weeks

Number of exposures: one daily Dose: 0, 100, 300, 1000 mg/kg

Group: yes

Method: OECD Test Guideline 407

GLP: no

Target Organs: Respiratory system

Repeated dose toxicity -

Assessment

: No data available

Aspiration toxicity

No data available



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Experience with human exposure

General Information: No data available

Inhalation: No data available

Skin contact: No data available

Eye contact: No data available

Ingestion: No data available

Toxicology, Metabolism, Distribution

No data available

Neurological effects

No data available

Further information

Product:

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Ingredients:

2-dimethylaminoethanol:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 146.63 mg/l

Exposure time: 96 h Test Type: static test

Test substance: Fresh water

hexahydrophthalic anhydride:

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 1,000 mg/l

Exposure time: 96 h Test Type: static test

Method: OECD Test Guideline 203

GLP: yes

Ingredients:

2-dimethylaminoethanol:

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 98.37 mg/l

Exposure time: 48 h Test Type: static test

Test substance: Fresh water

hexahydrophthalic anhydride:



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Toxicity to daphnia and other

aquatic invertebrates

: LC50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

GLP: yes

Ingredients:

2-dimethylaminoethanol:

Toxicity to algae

: EC50 (Desmodesmus subspicatus (Scenedesmus

subspicatus)): 66.08 mg/l Exposure time: 72 h Test Type: static test

Test substance: Fresh water

hexahydrophthalic anhydride:

Toxicity to algae

EC50 (Pseudokirchneriella subcapitata (green algae)): > 91.9

Exposure time: 72 h Test Type: static test

Method: Directive 67/548/EEC, Annex V, C.3.

GLP: yes

M-Factor (Acute aquatic

toxicity)

: No data available

Toxicity to fish (Chronic

toxicity)

: No data available

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: No data available

M-Factor (Chronic aquatic

toxicity)

: No data available

Ingredients:

hexahydrophthalic anhydride:

Toxicity to bacteria

: EC50 (activated sludge): 370 mg/l

Exposure time: 3 h Test Type: static test

Method: OECD Test Guideline 209

GLP: yes

Toxicity to soil dwelling

organisms

: No data available

Plant toxicity : No data available

Sediment toxicity : No data available

Toxicity to terrestrial

organisms

: No data available

Ecotoxicology Assessment

Acute aquatic toxicity : No data available



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Chronic aquatic toxicity : No data available

Toxicity Data on Soil : No data available

Other organisms relevant to

the environment

: No data available

Further information: No data available

Persistence and degradability

Ingredients:

Formaldehyde, reaction products with hexahydro-1,3-isobenzofurandione and

triethylenetetramine:

Biodegradability : Result: Not readily biodegradable.

Biodegradation: 15 % Exposure time: 29 d

Method: OECD Test Guideline 301B

2-dimethylaminoethanol:

Biodegradability : Inoculum: Mixture

Concentration: 100 mg/l Result: Readily biodegradable. Biodegradation: 60.5 % Exposure time: 28 d

Method: OECD Test Guideline 301C

hexahydrophthalic anhydride:

Biodegradability : Test Type: aerobic

Inoculum: activated sludge Result: Readily biodegradable.

Method: Directive 67/548/EEC Annex V, C.4.A.

GLP: yes

Remarks: Readily biodegradable, according to appropriate

OECD test.

Biochemical Oxygen

Demand (BOD)

: No data available

Chemical Oxygen Demand

(COD)

: No data available

BOD/COD : No data available

ThOD : No data available

BOD/ThOD : No data available

Dissolved organic carbon

(DOC)

: No data available

Physico-chemical

removability

: No data available



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Stability in water : No data available

Photodegradation No data available

Impact on Sewage

Treatment

: No data available

Bioaccumulative potential

Ingredients:

hexahydrophthalic anhydride:

Bioaccumulation Species: Fish

Bioconcentration factor (BCF): 4.73

Ingredients:

2-dimethylaminoethanol:

Partition coefficient: n-

octanol/water

: log Pow: -0.55 (23 °C)

Mobility in soil

Mobility : No data available

Distribution among

environmental compartments

: No data available

Stability in soil : No data available

Other adverse effects

Environmental fate and

pathways

: No data available

Results of PBT and vPvB

assessment

: No data available

Endocrine disrupting

potential

: No data available

Adsorbed organic bound

halogens (AOX)

: No data available

Hazardous to the ozone layer

Ozone-Depletion Potential Not applicable

Additional ecological

information - Product

Global warming potential

(GWP)

: No data available

: No data available



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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Do not dispose of waste into sewer.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION

International Regulation

TDG

UN number : UN 2735

Proper shipping name : AMINES, LIQUID, CORROSIVE, N.O.S.

(2-DIMETHYLAMINOETHANOL)

Class : 8
Packing group : II
Labels : 8

IATA

UN/ID No. : UN 2735

Proper shipping name : Amines, liquid, corrosive, n.o.s.

(2-DIMETHYLAMINOETHANOL)

Class : 8 Packing group : II

Labels : Corrosive Packing instruction (cargo : 855

aircraft)

Packing instruction : 851

(passenger aircraft)

. 0

IMDG

UN number : UN 2735

Proper shipping name : AMINES, LIQUID, CORROSIVE, N.O.S.

(2-DIMETHYLAMINOETHANOL)

Class : 8
Packing group : II
Labels : 8
EmS Code : F-/

EmS Code : F-A, S-B Marine pollutant : no



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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

TDG

UN number : UN 2735

Proper shipping name : AMINES, LIQUID, CORROSIVE, N.O.S.

(2-DIMETHYLAMINOETHANOL)

Class Packing group П Labels 8 ÷ **ERG Code** 153 Marine pollutant no

SECTION 15. REGULATORY INFORMATION

TSCA - 5(a) Significant New : Not relevant

Use Rule List of Chemicals

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

The ingredients of this product are reported in the following inventories:

CH INV The mixture contains substances listed on the Swiss Inventory

TSCA On TSCA Inventory

DSL This product contains the following components listed on the

Canadian NDSL. All other components are on the Canadian

DSL.

AICS : On the inventory, or in compliance with the inventory **NZIoC** On the inventory, or in compliance with the inventory

ENCS Low volume exemption ISHL : Low volume exemption

KECI : Not in compliance with the inventory **PICCS** Not in compliance with the inventory **IECSC** Not in compliance with the inventory



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SECTION 16. OTHER INFORMATION

Further information

NFPA: Flammability Health 3 Special hazard.

HMIS III:

HEALTH	3
FLAMMABILITY	2
PHYSICAL HAZARD	1

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High

4 = Extreme, * = Chronic

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