Printing date 05/11/2022 Reviewed on 05/11/2022

1 Identification

· Product identifier

· Trade name: STAUF CCO-652-A

· Details of the supplier of the safety data sheet

· Distributor:

STAUF USA. LLC. 835 Herbert Rd

Cordova, TN 38018, USA Phone 1-901-820-0007 Fax 1-901-820-0101

2 Hazard(s) identification

· Classification of the substance or mixture

The product is not classified, according to the Globally Harmonized System (GHS).

- · Label elements
- · GHS label elements Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 1 Fire = 0Reactivity = 0

· WHMIS-ratings (scale 0 - 4)



1 Health = 1 Fire = 0

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:		
3218-02-8	cyclohexanemethylamine	2.5-10%
1330-20-7	xylene (mix)	2.5-10%

· Additional information: For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

- Description of first aid measures
- · General information: No special measures required.
- · After inhalation: Supply fresh air; consult doctor in case of complications.
- · **After skin contact:** Generally the product does not irritate the skin.

(Contd. on page 2)

Printing date 05/11/2022 Reviewed on 05/11/2022

Trade name: STAUF CCO-652-A

(Contd. of page 1)

· After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: If symptoms persist consult doctor.
- Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed. No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- Protective equipment: No special measures required.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Wear protective clothing.

- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Protective Action Criteria for Chemicals

· PAC-1:	
1330-20-7 xylene (mix)	130 ppm
· PAC-2:	
1330-20-7 xylene (mix)	920* ppm
· PAC-3:	
1330-20-7 xylene (mix)	2500* ppm

7 Handling and storage

- · Handling:
- · Precautions for safe handling No special precautions are necessary if used correctly.
- Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.

(Contd. on page 3)

Printing date 05/11/2022 Reviewed on 05/11/2022

Trade name: STAUF CCO-652-A

(Contd. of page 2)

· Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- Components with limit values that require monitoring at the workplace:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

1330-20-7 xylene (mix)

PEL Long-term value: 435 mg/m³, 100 ppm
REL Short-term value: 655 mg/m³, 150 ppm
Long-term value: 435 mg/m³, 100 ppm
TLV Short-term value: (150) ppm

Long-term value: (100) NIC-20 ppm

BEI, A4

Ingredients with biological limit values:

1330-20-7 xylene (mix)

BEI 1.5 g/g creatinine Medium: urine Time: end of shift

Parameter: Methylhippuric acids

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- Personal protective equipment:
- · General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Wash hands before breaks and at the end of work.

- · Breathing equipment: Not necessary if room is well-ventilated.
- · Protection of hands: Not required.
- · Material of gloves Strong gloves
- · Eye protection: Goggles recommended during refilling.
- · Body protection: Protective work clothing

9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Fluid

Color: According to product specification

Odor: CharacteristicOdor threshold: Not determined.pH-value: Not determined.

· Change in condition

Boiling point/Boiling range: Undetermined.

• Flash point: Not applicable.

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Trade name: STAUF CCO-652-A

(Contd. of page 3)

Flammability (solid, gaseous): Not applicable.Decomposition temperature: Not determined.

· **Auto igniting:** Product is not selfigniting.

• **Danger of explosion:** Product does not present an explosion hazard.

· Explosion limits:

Lower: Not determined. Vapor pressure: Not determined.

• **Density at 20 °C (68 °F):** 0.83897 g/cm³ (7.0012 lbs/gal)

Relative density
 Vapor density
 Evaporation rate
 Not determined.
 Not determined.

· Solubility in / Miscibility with

Water: Not miscible or difficult to mix.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

Dynamic: Not determined. Kinematic: Not determined.

· Solvent content:

 Organic solvents:
 4.9 %

 VOC Content:
 4.90 %

 4.90 %

• Other information No further relevant information available.

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· I D/I C50 values	that are releva	nt for classification:

1330-20-7	xylene (mi	•
Oral	LD50	8,700 mg/kg (rat)
		8,700 mg/kg (rat) 2,000 mg/kg (rabbit)
Inhalative	LC50/48 h	6,350 mg/l (rat)

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Trade name: STAUF CCO-652-A

· Primary irritant effect:

· on the skin: No irritant effect.

- · on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

1330-20-7 xylene (mix)

3

(Contd. of page 4)

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · **Recommendation:** Smaller quantities can be disposed of with household waste.
- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

14 Transport information

- · UN-Number
- · DOT, ADR, IMDG, IATA Void
- · UN proper shipping name
- · DOT, ADR, IMDG, IATA Void

(Contd. on page 6)

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Trade name: STAUF CCO-652-A

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· Transport hazard class(es)

· DOT, ADR, ADN, IMDG, IATA

· Class Void

· Packing group

· DOT, ADR, IMDG, IATA Void

Environmental hazards: Not applicable.Special precautions for user Not applicable.

Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

· UN "Model Regulation": Void

15 Regulatory information	
Safety, health and environmental regular	tions/legislation specific for the substance or mixture

Gara
· Section 355 (extremely hazardous substances):

None of the ingredient is listed.

· Section 313 (Specific toxic chemical listings):

1330-20-7 xylene (mix)

· TSCA (Toxic Substances Control Act):

1330-20-7 xylene (mix)

ACTIVE ACTIVE

77-99-6 propylidynetrimethanol

· Hazardous Air Pollutants

1330-20-7 xylene (mix)

· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Canadian Ingredient disclosure list

· Limit 0,1%

None of the ingredients is listed.

· Limit 1%

None of the ingredients is listed.

· Cancerogenity categories

· EPA (Environmental Protection Agency)

1330-20-7 xylene (mix)

I

· TLV (Threshold Limit Value)

1330-20-7 xylene (mix)

A4

· MAK (German Maximum Workplace Concentration)

None of the ingredients is listed.

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Trade name: STAUF CCO-652-A

(Contd. of page 6)

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

- · National regulations:
- · Technical instructions (air):

Class	Share in %
NK	2.5-10

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · **Department issuing SDS:** Technical Department
- Contact: Wolfgang Stauf, Phone 901-820-0007, Email wolfgang.stauf@staufusa.com
- · Date of preparation / last revision 05/11/2022 / -

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Printing date 05/11/2022 Reviewed on 05/11/2022

1 Identification

· Product identifier

· Trade name: STAUF CCO-652-B

CAS Number: 822-06-0 EC number: 212-485-8 Index number: 615-011-00-1

Details of the supplier of the safety data sheet

· Distributor:

STAUF USA, LLC. 835 Herbert Rd

Cordova, TN 38018, USA Phone 1-901-820-0007 Fax 1-901-820-0101

2 Hazard(s) identification

· Classification of the substance or mixture



Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

- · Label elements
- · GHS label elements

The substance is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



GHS07

- · Signal word Warning
- · Hazard-determining components of labeling:

hexamethylene-di-isocyanate

· Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

· Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

P264 Wash thoroughly after handling.
P302+P352 If on skin: Wash with plenty of water.
P321 Specific treatment (see on this label).

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

(Contd. on page 2)

Printing date 05/11/2022 Reviewed on 05/11/2022

Trade name: STAUF CCO-652-B

P362+P364 Take off contaminated clothing and wash it before reuse.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. P337+P313

Store locked up. P405

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

regulations.

· Classification system:

· NFPA ratings (scale 0 - 4)



Health = 2Fire = 1Reactivity = 0

· WHMIS-ratings (scale 0 - 4)



Health = *2 Fire = 1

- · Results of PBT and vPvB assessment
- · PBT: Not applicable. · vPvB: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Substances
- **CAS No. Description**

822-06-0 hexamethylene-di-isocyanate

- Identification number(s) not available
- · EC number: 212-485-8 · Index number: 615-011-00-1

4 First-aid measures

- Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- · After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Immediately rinse with water.

· After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: Do not induce vomiting; immediately call for medical help.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

(Contd. of page 1)

Printing date 05/11/2022 Reviewed on 05/11/2022

Trade name: STAUF CCO-652-B

(Contd. of page 2)

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire fighting measures that suit the environment.

- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Wear protective clothing.

- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· Protective Action Criteria for Chemicals

· PAC-1:

0.018 ppm

PAC-2:

0.2 ppm

· PAC-3:

3 ppm

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep receptacle tightly sealed.
- · **Specific end use(s)** No further relevant information available.

Printing date 05/11/2022 Reviewed on 05/11/2022

Trade name: STAUF CCO-652-B

(Contd. of page 3)

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

822-06-0 hexamethylene-di-isocyanate

REL Long-term value: 0.035 mg/m³, 0.005 ppm

Ceiling limit value: 0.14* mg/m³, 0.02* ppm

*10-min

TLV Long-term value: 0.005 ppm

BEI

· Ingredients with biological limit values:

822-06-0 hexamethylene-di-isocyanate

BEI 15 µg/g creatinine

Medium: urine Time: end of shift

Parameter: 1.6-Hexamethylene diamine with hydrolysis (nonspecific)

- · Additional information: The lists that were valid during the creation were used as basis.
- Exposure controls
- Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· Breathing equipment:

Not necessary if room is well-ventilated.

Use suitable respiratory protective device in case of insufficient ventilation.

· Protection of hands:



Protective gloves

· Material of gloves

Butyl rubber, BR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Eye protection:



Tightly sealed goggles

Body protection: Protective work clothing

- U:

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Trade name: STAUF CCO-652-B

(Contd. of page 4)

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form:
Color:
Yellowish
Odor:
Pungent
Odor threshold:
Not determined.

· Change in condition

Boiling point/Boiling range: 187 °C (368.6 °F)

• Flash point: 136 °C (276.8 °F)

• Flammability (solid, gaseous): Not applicable.

• Ignition temperature: 454 °C (849.2 °F)

• Decomposition temperature: Not determined.

• Auto igniting: Not determined.

• **Danger of explosion:** Product does not present an explosion hazard.

· Explosion limits:

Lower: 0.9 Vol % Upper: 9.5 Vol %

· Vapor pressure at 20 °C (68 °F): 0.007 hPa (0 mm Hg)

Density at 20 °C (68 °F): 1.05 g/cm³ (8.76225 lbs/gal)

Relative density
 Vapor density
 Evaporation rate
 Not determined.
 Not determined.

· Solubility in / Miscibility with

Water: Not miscible or difficult to mix.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

Dynamic: Not determined. Kinematic: Not determined.

VOC Content: 0.00 %

0.00 %

· **Other information** No further relevant information available.

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.

(Contd. on page 6)

Printing date 05/11/2022 Reviewed on 05/11/2022

Trade name: STAUF CCO-652-B

(Contd. of page 5)

· Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- Acute toxicity:
- · Primary irritant effect:
- · on the skin: No irritant effect.
- · on the eye: Irritating effect.
- · Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

Substance is not listed.

· NTP (National Toxicology Program)

Substance is not listed.

· OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:

Water hazard class 1 (Assessment by list): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation: If product has aged or solidified conventional means of disposal are acceptable.
- Uncleaned packagings:
- · **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- · UN-Number
- DOT, ADR, IMDG, IATA

UN2281

Printing date 05/11/2022 Reviewed on 05/11/2022

Trade name: STAUF CCO-652-B

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· UN proper shipping name

• **DOT** Hexamethylene diisocyanate

· ADR 2281 HEXÁMETHYLÉNE DIISOCYANATE HEXAMETHYLENE DIISOCYANATE

· Transport hazard class(es)

· DOT



· Class 6.1 Toxic substances

· Label 6.1

· ADR, IMDG, IATA



· Class 6.1 Toxic substances

· Label 6.1

· Packing group

· DOT, ADR, IMDG, IATA

· **Environmental hazards:** Not applicable.

• Special precautions for user Warning: Toxic substances

Hazard identification number (Kemler code): 60
EMS Number: 6.1-02
Stowage Category C

· Stowage Code SW2 Clear of living quarters.

· Handling Code H1 Keep as dry as reasonably practicable

· Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

· Transport/Additional information:

· ADR

· Excepted quantities (EQ) Code: E4

Maximum net quantity per inner packaging: 1 ml Maximum net quantity per outer packaging: 500 ml

·IMDG

Limited quantities (LQ)
 Excepted quantities (EQ)
 100 ml
 Code: E4

Maximum net quantity per inner packaging: 1 ml Maximum net quantity per outer packaging: 500 ml

• <u>UN "Model Regulation":</u> UN 2281 HEXAMETHYLENE DIISOCYANATE, 6.1, II

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture

Sara

· Section 355 (extremely hazardous substances):

Substance is not listed.

(Contd. on page 8)

Printing date 05/11/2022 Reviewed on 05/11/2022

Trade name: STAUF CCO-652-B

(Contd. of page 7)

· Section 313 (Specific toxic chemical listings):

Substance is listed.

· TSCA (Toxic Substances Control Act):

ACTIVE

· Hazardous Air Pollutants

Substance is listed.

· Proposition 65

· Chemicals known to cause cancer:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

· Chemicals known to cause developmental toxicity:

Substance is not listed.

· Canadian Ingredient disclosure list

· Limit 0,1%

Substance is listed.

· Limit 1%

Substance is not listed.

- · Cancerogenity categories
- · EPA (Environmental Protection Agency)

Substance is not listed.

· TLV (Threshold Limit Value)

Substance is not listed.

· MAK (German Maximum Workplace Concentration)

Substance is not listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

· National regulations:

· Technical instructions (air):

Class	Share in %
	50-100

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Technical Department
- · Contact: Wolfgang Stauf, Phone 901-820-0007, Email wolfgang.stauf@staufusa.com
- · Date of preparation / last revision 05/11/2022 / -
- Abbreviations and acronyms:

Skin Irrit. 2: Skin corrosion/irritation - Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A

(Contd. on page 9)

Page 9/9

Safety Data Sheet acc. to OSHA HCS

Printing date 05/11/2022 Reviewed on 05/11/2022

Trade name: STAUF CCO-652-B

Skin Sens. 1: Skin sensitisation – Category 1 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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