



POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

STAN-TONE HCC-19666 ALUMINUM

Version Number 1.2
Revision Date 08/15/2003

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1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION
2700 Papin Street, St. Louis, MO 63103

NON-EMERGENCY TELEPHONE : Product Stewardship, (314) 771-1800
Emergency telephone number : **CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).**

Product name : STAN-TONE HCC-19666 ALUMINUM
Product code : FO00004876
Chemical Name : Mixture
CAS-No. : Mixture
Product Use : Industrial Applications

2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

Components	CAS-No.	Weight %
Ethyl benzene	100-41-4	0.1 - 1
Xylenes (o-, m-, p- isomers)	1330-20-7	1 - 5
Stoddard solvent	8052-41-3	5 - 10
Aluminum	7429-90-5	10 - 30
1,2,4-Trimethylbenzene	95-63-6	10 - 30

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Combustible. Vapors may be irritating to eyes and respiratory tract. This mixture has not been evaluated as a whole for health effects. Information provided on health effects of this product is based on the individual components. However, some vapors or contaminants may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure. See sections 8 and 11 for special precautions.

POTENTIAL HEALTH EFFECTS

Routes of Exposure: : Inhalation, Skin contact, Ingestion

Acute exposure

Inhalation : Inhalation of airborne droplets may cause irritation of the respiratory tract.
Ingestion : May be harmful if swallowed.
Eyes : May cause eye/skin irritation.
Skin : Experience shows no unusual dermatitis hazard from routine handling.

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Print Date 11/12/2011**Chronic exposure** : Refer to Section 11 for Toxicological Information.**Medical Conditions** : None known.**Aggravated by Exposure:****4. FIRST AID MEASURES**

- Inhalation** : Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. When symptoms persist or in all cases of doubt seek medical advice.
- Ingestion** : Do not induce vomiting without medical advice. Seek medical attention if necessary.
- Eyes** : Rinse immediately with plenty of water for at least 15 minutes. If eye irritation persists, seek medical attention.
- Skin** : Wash off with soap and plenty of water. If skin irritation persists seek medical attention.

5. FIRE-FIGHTING MEASURES

- Flash point** : Between 100 °F and 200 °F
- Flammable Limits**
- Upper explosion limit** : No data available.
 - Lower explosion limit** : No data available.
- Autoignition temperature** : No data available.
- Suitable extinguishing media** : Carbon dioxide blanket, dry powder, foam, water spray.
- Special Fire Fighting Procedures** : Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants.
- Unusual Fire/Explosion Hazards** : May emit Hydrogen Chloride (HCl) or Carbon Monoxide (CO) under fire conditions.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Wear appropriate personal protection during cleanup, such as impervious gloves, boots and coveralls.
- Environmental precautions** : Should not be released into the environment. The product should not be allowed to enter drains, water courses or the soil.
- Methods for cleaning up** : Contain and collect spillage 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). Package all material in appropriate container for disposal. Refer to Section 13 of this MSDS for proper disposal methods.

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7. HANDLING AND STORAGE

- Handling : Combustible liquid. Keep away from flames, hot surfaces, and sources of ignition. Use only in an area with appropriate ventilation. Processing fume condensates may contain combustible or toxic residue. Periodically clean hoods, ducts, and other surfaces to minimize accumulation of these materials.
- Storage : Store below 140 deg F (60 deg C). Keep containers dry and tightly closed to avoid moisture absorption and contamination.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Respiratory protection : Under normal handling conditions a respirator may not be required. Airborne contaminant levels should be maintained below the occupational exposure guidelines.
- Eye/Face Protection : Safety glasses with side-shields.
- Hand protection : Protective gloves.
- Skin and body protection : Long sleeved clothing.
- Additional Protective Measures : Safety shoes.
- General Hygiene Considerations : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Ensure adequate ventilation, especially in confined areas.
- Engineering measures : Provide general and/or local exhaust ventilation to control airborne contaminant levels below the exposure guidelines.

Exposure limit(s)

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Components	Value	Exposure time	Exposure type	List:
Aluminum	10 mg/m3	Time Weighted Average (TWA):	Dust.	ACGIH
	5 mg/m3	Time Weighted Average (TWA):	Welding fume. as Al	ACGIH
Aluminum	15 mg/m3	PEL:	Total dust. as Al	OSHA Z1
	5 mg/m3	PEL:	Respirable dust. as Al	OSHA Z1
Ethyl benzene	100 ppm 434 mg/m3	Time Weighted Average (TWA):	Vapor and aerosol.	ACGIH
	125 ppm 543 mg/m3	Short Term Exposure Limit (STEL):	Vapor and aerosol.	ACGIH
Ethyl benzene	100 ppm 435 mg/m3	PEL:	Vapor and aerosol.	OSHA Z1
Stoddard solvent	100 ppm 525 mg/m3	Time Weighted Average (TWA):	Vapor and mist.	ACGIH
Stoddard solvent	500 ppm 2,900 mg/m3	PEL:	Vapor and mist.	OSHA Z1
Xylenes (o-, m-, p-isomers)	100 ppm 435 mg/m3	PEL:	Vapor and aerosol.	OSHA Z1
Xylenes (o-, m-, p-isomers)	100 ppm	Time Weighted Average (TWA):	Vapor and aerosol.	ACGIH
	150 ppm	Short Term Exposure Limit (STEL):	Vapor and aerosol.	ACGIH
1,2,4-Trimethylbenzene	25 ppm 123 mg/m3	Time Weighted Average (TWA):	Vapor.	ACGIH

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: Liquid	Evaporation rate	: Not established
Appearance	: Viscous, Liquid	Specific Gravity	: Not determined
Color	: GREY	Bulk density	: Not applicable.
Odor	: Very faint	Vapor pressure	: Not determined
Melting point/range	: Not applicable	Vapor density	: Not determined
Boiling Point:	: No data available.	pH	: Not determined
Water solubility	: Immiscible		

10. STABILITY AND REACTIVITY

Stability	: Stable.
Hazardous Polymerization	: Will not occur.
Conditions to avoid	: Keep away from oxidizing agents and open flame.
Incompatible Materials	: Incompatible with strong acids and oxidizing agents. Avoid contact with acetal homopolymers and acetal copolymers during processing.
Hazardous decomposition products	: Carbon dioxide (CO ₂), carbon monoxide (CO), oxides of nitrogen (NO _x), hydrogen chloride (HCl), other hazardous materials, and

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smoke are all possible. Prolonged heating may result in product degradation. As a general rule of thumb, degradation begins to occur after one hour at 177 °C (350 °F), after 10 minutes at 204 °C (400 °F), and within 5 minutes at 232 °C (450 °F).

11. TOXICOLOGICAL INFORMATION

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

Toxicity Overview

This product contains the following components which in their pure form have the following characteristics:

CAS-No.	Chemical Name	Effect	Target Organ
100-41-4	Ethyl benzene	Irritant	Eyes, Skin, Respiratory system.
		Systemic effects	Eyes, Skin, Respiratory system, central nervous system.
1330-20-7	Xylenes (o-, m-, p-isomers)	Irritant	Eyes, Respiratory system.
		Systemic effects	Eyes, Skin, Respiratory system, blood and blood forming system, Liver, Kidney, central nervous system, digestive system.
8052-41-3	Stoddard solvent	Systemic effects	Eyes, Skin, Respiratory system, Kidney, central nervous system.
7429-90-5	Aluminum	Irritant	Skin, Respiratory system.
		Systemic effects	Eyes, Skin, Respiratory system.
95-63-6	1,2,4-Trimethylbenzene	Systemic effects	central nervous system.
		Irritant	Eyes, Skin.

LC50 / LD50

This product contains the following components which, in their pure form, have the following toxicity data:

CAS-No.	Chemical Name	Route	Value	Species
100-41-4	Ethyl benzene	Oral LD50 Dermal LD50	3,500 mg/kg 17800 ul/kg	rat rabbit
1330-20-7	Xylenes (o-, m-, p-isomers)	LC50 Oral LD50 Dermal LD50	5000 ppm/4H 4,300 mg/kg > 1,700 mg/kg	rat rat rabbit
95-63-6	1,2,4-Trimethylbenzene	Oral LD50	5,000 mg/kg	rat

Carcinogenicity:

This product contains the following components which, in their pure form, have the following carcinogenicity data:

CAS-No.	Chemical Name	OSHA	IARC	NTP
100-41-4	Ethyl benzene	no	2B	no

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IARC Carcinogen Classifications:

- 1 - The component is carcinogenic to humans.
- 2A - The component is probably carcinogenic to humans.
- 2B - The component is possibly carcinogenic to humans.

NTP Carcinogen Classifications:

- 1 - The component is known to be a human carcinogen.
- 2 - The component is reasonably anticipated to be a human carcinogen.

12. ECOLOGICAL INFORMATION

- Persistence and degradability : Not readily biodegradable.
- Environmental Toxicity : Environmental toxicity has not been established for this mixture as a whole.
- Bioaccumulation Potential : No data available.
- Additional advice : No data available.

13. DISPOSAL CONSIDERATIONS

- Product : Where possible, recycling is preferred to disposal or incineration. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.
- Contaminated packaging : Recycling is preferred when possible. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.

14. TRANSPORT INFORMATION

- U.S. DOT Classification : Refer to specific regulation.
- ICAO/IATA : Refer to specific regulation.
- IMO / IMDG : Refer to specific regulation.

15. REGULATORY INFORMATION

US Regulations:

- OSHA Status : Classified as hazardous based on components.
- TSCA Status : All components of this product are listed on or exempt from the TSCA Inventory.

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US. EPA CERCLA Hazardous Substances (40 CFR 302)

Chemical Name	CAS-No.	% in Product	RQ for component	RQ for Mixture/Product
Xylenes (o-, m-, p-isomers)	1330-20-7	0.9900	100 lbs	10,101 LB

California Proposition : This product does not contain a substance listed by California Prop 65.
65

SARA Title III Section 302 Extremely Hazardous Substance

Not applicable

SARA Title III Section 313 Toxic Chemicals:

Chemical Name	CAS-No.	Weight %
ALUMINUM (FUME OR DUST)	7429-90-5	29.04
XYLENE (MIXED ISOMERS)	1330-20-7	0.99
1,2,4-TRIMETHYLBENZENE	95-63-6	10.56

Canadian Regulations:

National Pollutant Release Inventory (NPRI)

Chemical Name	CAS-No.	Weight %	NPRI ID#
Aluminum	7429-90-5	29.04	12
Ethyl benzene	100-41-4	0.16	111
Xylenes (o-, m-, p- isomers)	1330-20-7	0.99	240
Cumene	98-82-8	0.49	73
1,2,4-Trimethylbenzene	95-63-6	10.56	233

WHMIS Classification : D2A

WHMIS Ingredient Disclosure List

CAS-No.
7429-90-5
100-41-4
8052-41-3
1330-20-7
95-63-6

DSL : All components of this product are on the Canadian Domestic Substances List (DSL) or are exempt.

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National Inventories:

Australia AICS	:	Not determined.
China IECS	:	Listed.
Europe EINECS	:	Not determined.
Japan ENCS	:	Not determined.
Korea KECI	:	Not determined.
Philippines PICCS	:	Not determined.

16. OTHER INFORMATION

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material when used in combination with any other materials and/or in any particular process or processing conditions.