

Safety Data Sheet

[®] Prepared in Accordance with HCS 29 C.F.R. 1910.1200

1. Identification of the Substance/Mixture and the Company/Undertaking

1.1	Product Identifier	4701S1NL	Revision Date:	11/10/2021			
	Product Name:	THERMALINE 4700 ALUMINUM	Supercedes Date:	03/22/2019			
1.2	Relevant identified uses of the substance or mixture and uses advised against	Monocomponent industrial coating - Industrial use.					
1.3	3 Details of the supplier of the safety data sheet						
	Manufacturer:						
		Regulatory / Technical Information: Contact Carboline Technical Services at 1-800-848-4645					
	Datasheet Produced by:	Beebe, Hayli - regulatory@carboline.com	n				
1.4	Emergency telephone number:	CHEMTREC 1-800-424-9300 (Inside US CHEMTREC +1 703 5273887 (Outside L HEALTH - Pittsburgh Poison Control 1-4	ĴS)				

2. Hazard Identification

2.1 Classification of the substance or mixture

Acute Toxicity, Inhalation, category 4 Carcinogenicity, category 1A Eye Irritation, category 2 Flammable Liquid, category 2 Reproductive Toxicity, category 2 STOT, repeated exposure, category 1 Skin Irritation, category 2

2.2 Label elements

Symbol(s) of Product



Signal Word

Danger

Named Chemicals on Label

ORTHO-XYLENE, ETHYL BENZENE, PARA-XYLENE, META-XYLENE, TOLUENE, MICROCRYSTALLINE SILICA

HAZARD STATEMENTS

25 15 19 32 50-1A 61 72	Highly flammable liquid and vapour. Causes skin irritation. Causes serious eye irritation. Harmful if inhaled. May cause cancer. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure.
01	Obtain special instructions before use.
02	Do not handle until all safety precautions have been read and understood.
10	Keep away from heat/sparks/open flames/hot surfaces No smoking.
35	Keep cool.
60	Do not breathe dust/fume/gas/mist/vapours/spray.
64	Wash hands thoroughly after handling.
80	Wear protective gloves/protective clothing/eye protection/ face protection.
84	Wear respiratory protection.
04+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
05+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
08+313	IF exposed or concerned: Get medical advice/attention
14	Get medical advice/attention if you feel unwell.
32+313	If skin irritation occurs: Get medical advice/attention.
03+233	Store in a well-ventilated place. Keep container tightly closed.
113567 00 1 3668 80 0 013	5 9 9 22 50-1A 51 72 0 5 5 0 4 4 22 0 5 5 0 6 4 4 4 4 4 3 5 +351+338 8 +313 4 2 +313

2.3 Other hazards

No Information

Results of PBT and vPvB assessment:

The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.

3. Composition/Information On Ingredients	
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- 3.2 Mixtures
- Hazardous ingredients

Name According to EEC EINEC No. CAS-No.

No.

Classifications

<u>%</u>

Product: 4701S1NL

Date Printed: 11/10/2021

Product: 4701S1NL

MICROCRYSTALLINE SILICA	238-878-4	14808-60-7	10 - <25	H350-372	Carc. 1A, STOT RE 1
META-XYLENE	203-576-3	108-38-3	10 - <25	H312-315-332	
ALUMINUM (DUST OR FUME)	231-072-3	7429-90-5	10 - <25	H261	
TOLUENE	203-625-9	108-88-3	2.5 - <10	H225-304-315-319-336-361-373	
PARA-XYLENE	203-396-5	106-42-3	2.5 - <10	H304-312-315-332-335-371	
ETHYL BENZENE	202-849-4	100-41-4	2.5 - <10	H225-304-315-319-332-351-373 -412	Acute Tox. 4 Inhalation, Aquatic Chronic 3, Asp. Tox. 1, Carc. 2, Eye Irrit. 2, Flam. Liq. 2, Skin Irrit. 2, STOT RE 2
ORTHO-XYLENE	202-422-2	95-47-6	2.5 - <10	H312-315-332	
AROMATIC HYDROCARBON	265-199-0	64742-95-6	1.0 - <2.5	H226-304-315-319-332-335-336 -411	

<u>CAS-NO.</u>	INI-Factors
14808-60-7	0
108-38-3	0
7429-90-5	0
108-88-3	0
106-42-3	0
100-41-4	0
95-47-6	0
64742-95-6	0

Additional Information: The text for GHS Hazard Statements shown above (if any) is given in Section 16.

4. First-aid Measures

4.1 Description of First Aid Measures

AFTER INHALATION: Give oxygen or artificial respiration if needed. Remove person to fresh air. If signs/symptoms continue, get medical attention.

AFTER SKIN CONTACT: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. If skin irritation persists, call a physician.

AFTER EYE CONTACT: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. AFTER INGESTION: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If swallowed, call a poison control centre or doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

Harmful if swallowed. Irritating to eyes and skin. Risk of serious damage to the lungs (by aspiration). Vapours may cause drowsiness and dizziness.

4.3 Indication of any immediate medical attention and special treatment needed

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

When symptoms persist or in all cases of doubt seek medical advice.

5. Fire-fighting Measures

5.1 Extinguishing Media:

Carbon Dioxide, Dry Chemical, Foam, Water Fog

UNUSUAL FIRE AND EXPLOSION HAZARDS: Flammable liquid. Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Vapors may travel to areas away from work site before igniting/flashing back to vapor source. Provide adequate ventilation. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Electrical installations / working materials must comply with the technological safety standards. Wear shoes with conductive soles.

FOR SAFETY REASONS NOT TO BE USED: No Information

5.2 Special hazards arising from the substance or mixture No Information

5.3 Advice for firefighters

SPECIAL FIREFIGHTING PROCEDURES: In the event of fire, wear self-contained breathing apparatus. Cool containers / tanks with water spray. Flammable.

SPECIAL FIREFIGHTING PROTECTION EQUIPMENT: No Information

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition. To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded. Wear personal protective equipment. For personal protection see section 8.

6.2 Environmental precautions

Do not allow material to contaminate ground water system. Prevent product from entering drains.

6.3 Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections

No Information

7. Handling and Storage

7.1 Precautions for safe handling

INSTRUCTIONS FOR SAFE HANDLING : Keep containers dry and tightly closed to avoid moisture absorption and contamination. Prepare the working solution as given on the label(s) and/or the user instructions. Do not breathe vapours or spray mist. Ensure all equipment is electrically grounded before beginning transfer operations. Do not use sparking tools. Do not get in eyes, on skin, or on clothing. Use only with adequate ventilation/personal protection. Wash thoroughly after handling.

PROTECTION AND HYGIENE MEASURES : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities

CONDITIONS TO AVOID: Heat, flames and sparks.

STORAGE CONDITIONS: Keep container closed when not in use. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.

7.3 Specific end use(s)

No specific advice for end use available.

8. Exposure Controls/Personal Protection

8.1 Control parameters

Ingredients with Occupational Exposure Limits (US)

Name	CAS-No.	ACGIH TWA	ACGIH STEL	ACGIH Ceiling
MICROCRYSTALLINE SILICA	14808-60-7	0.025 MGM3	N/E	N/E
META-XYLENE	108-38-3	100 PPM	150 PPM	N/E
ALUMINUM (DUST OR FUME)	7429-90-5	1 MGM3	N/E	N/E
TOLUENE	108-88-3	20 PPM	N/E	N/E
PARA-XYLENE	106-42-3	100 PPM	150 PPM	N/E
ETHYL BENZENE	100-41-4	20 PPM	125 ppm	
ORTHO-XYLENE	95-47-6	100 PPM	150 PPM	N/E
AROMATIC HYDROCARBON	64742-95-6	300.0 PPM	N/E	N/E
Name	<u>CAS-No.</u>	<u>OSHA PE</u>	L OSHA ST	<u>rel</u>
MICROCRYSTALLINE SILICA	14808-60-7	0.05 MGM3	N/E	
META-XYLENE	108-38-3	100.00 PPM	N/E	
ALUMINUM (DUST OR FUME)	7429-90-5	15 mg/m3	N/E	
TOLUENE	108-88-3	200 ppm	560 MGM3 PPM	, 150
PARA-XYLENE	106-42-3	100.00 PPM	N/E	
ETHYL BENZENE	100-41-4	435 MGM3, 1	100 PP 5/4 5 MGM3 PPM	, 125
ORTHO-XYLENE	95-47-6	100.00 PPM	N/E	
AROMATIC HYDROCARBON	64742-95-6	500.0 PPM	N/E	

FURTHER ADVICE: Refer to the regulatory exposure limits for the workforce enforced in each country. Some components may not have been classified under the EU CLP Regulation.

8.2 Exposure controls

Personal Protection

RESPIRATORY PROTECTION: In order to avoid inhalation of spray-mist and sanding dust, all spraying and sanding must be done wearing adequate respirator. Use only with ventilation to keep levels below exposure guidelines reported in this document. User should test and monitor exposure levels to ensure all personnel are below guidelines. If not sure, or not able to monitor, use State or federally approved supplied air respirator. For silica containing coatings in a liquid state, and/or if no exposure limits are established above, air-supplied respirators are generally not required.

EYE PROTECTION: Safety glasses with side-shields.

HAND PROTECTION: Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Impervious gloves. Request information on glove permeation properties from the glove supplier. Lightweight protective clothing

OTHER PROTECTIVE EQUIPMENT: Ensure that eyewash stations and safety showers are close to the workstation location.

ENGINEERING CONTROLS: Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas.

9. 1	Physical and Chemical Properties					
9.1	Information on basic physical and chemical properties					
	Appearance:	Viscous Aluminum Colored				
	Physical State	Liquid				
	Odor	Solvent				
	Odor threshold	N/D				
	рН	N/D				
	Melting point / freezing point (°C)	N/D				
	Boiling point/range (°C)	149 F (65 C) - 334 F (168 C)				
	Flash Point (°C)	68F (20C)				
	Evaporation rate	Slower Than Ether				
	Flammability (solid, gas)	Not determined				
	Upper/lower flammability or explosive limits	0.9 - 10.9				
	Vapour Pressure, mmHg	N/D				
	Vapour density	Heavier than Air				
	Relative density	Not determined				
	Solubility in / Miscibility with water	N/D				
	Partition coefficient: n-octanol/water	Not determined				
	Auto-ignition temperature (°C)	Not determined				
	Decomposition temperature (°C)	Not determined				
	Viscosity	Unknown				
	Explosive properties	Not determined				
	Oxidising properties	Not determined				
9.2	Other information					
	VOC Content g/I:	592				
	Specific Gravity (g/cm3)	1.16				

10. Stability and Reactivity

10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous polymerisation does not occur.

10.4 Conditions to avoid

Heat, flames and sparks.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke.

11. Toxicological Information						
11.1 Information on toxicological eff	Information on toxicological effects					
Acute Toxicity:						
Oral LD50:	N/D					
Inhalation LC50:	N/D					
Irritation:	Eye Irritation and Skin Irritation, category 2					
Corrosivity:	Unknown					
Sensitization:	Unknown					
Repeated dose toxicity:	Unknown					
Carcinogenicity:	Carcinogenicity, category 1A					
Mutagenicity:	Unknown					
Toxicity for reproduction:	Reproductive Toxicity, category 2					
STOT-single exposure:	Unknown					
STOT-repeated exposure:	STOT, repeated exposure, category 1					
Aspiration hazard:	Unknown					

If no information is available above under Acute Toxicity then the acute effects of this product have not been tested. Data on individual components are tabulated below:

CAS-No.	Chemical Name	Oral LD50	Dermal LD50	Vapor LC50	Gas LC50	<u>Dust/Mist</u> LC50
14808-60-7	MICROCRYSTALLINE SILICA	22500 mg/kg	Not Available	Not Available	0.000	0.000
108-38-3	META-XYLENE	Not Available	Not Available	Not Available	0.000	0.000
7429-90-5	ALUMINUM (DUST OR FUME)	5001 mg/kg, oral, rat	Not Available	888 mg/m3, Inh, Rat	0.000	0.000
108-88-3	TOLUENE	5000 mg/kg rat oral	12267 mg/kg, dermal, rabbit	8000 ppm/4 hrs, rat, inhalation	0.000	0.000
106-42-3	PARA-XYLENE	Not Available	Not Available	Not Available	0.000	0.000
100-41-4	ETHYL BENZENE	3500 mg/kg rat, oral	>5000 mg/l, dermal rabbit	17.2 mg/L Inh, Rat, 4Hr	0.000	0.000
95-47-6	ORTHO-XYLENE	Not Available	Not Available	Not Available	0.000	0.000
64742-95-6	AROMATIC HYDROCARBON	4700 mg/kg, oral, rat	Not Available	3670 ppm/8 hours, rat, inhalation	0.000	0.000

Additional Information:

This product may contain Ethyl Benzene, which is listed by IARC as possibly carcinogenic to humans (Group 2B). This listing is based on inadequate evidence of carcinogenicity in humans and sufficient evidence in experimental animals. This product contains silica which is classified by IARC as a known human carcinogen (Group 1). Crystalline silica is known to cause silicosis. The classification(s) is/are relevant when exposed to these respirable substances in dust or powder form only, including cured product that is subject to sanding, grinding, cutting, or other surface preparation activities.

12. E	colo	ogical Information						
12.1 T	oxici	ly:						
	EC5	50 48hr (Daphnia):	Unkno	wn				
	IC50 72hr (Algae):			wn				
LC50 96hr (fish):			Unkno	wn				
12.2 Persistence and degradability:		Unkno	wn					
12.3 B	lioaco	cumulative potential:	Unkno	Jnknown				
12.4 M	lobili	ty in soil:	Unkno	wn				
12.5 Results of PBT and vPvB assessment:		The pro	The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII					
12.6 Other adverse effects:			Unkno	wn				
CAS-No	<u>).</u>	Chemical Name		<u>EC50 48hr</u>	<u>IC50 72hr</u>	<u>LC50 96hr</u>		
14808-6	60-7	MICROCRYSTALLINE SILICA		No information	No information	No information		
108-38-3	3	META-XYLENE		No information	No information	No information		
7429-90)-5	ALUMINUM (DUST OR FUME)		No information	No information	No information		
108-88-3	3	TOLUENE		6 mg/l (Daphnia magna)	12.5 mg/L (Algae)	5.8 mg/L (Fish)		
106-42-3	3	PARA-XYLENE		No information	No information	No information		
100-41-4	4	ETHYL BENZENE		1.8 mg/I (Daphnia Magna)	4.6 mg/l (Green Algae)	4.2 mg/l (Rainbow Trout)		
95-47-6		ORTHO-XYLENE		No information	No information	No information		
64742-9	95-6	AROMATIC HYDROCARBON		No information	No information	No information		
13. D	Dispo	osal Considerations						

13.1 WASTE TREATMENT METHODS: Do not burn, or use a cutting torch on, the empty drum. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of in accordance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport Information

	Tranoport Information	
14.1	UN number	UN1263
14.2	UN proper shipping name	Paint
	Technical name	N/A
14.3	Transport hazard class(es)	3
	Subsidiary shipping hazard	N/A
14.4	Packing group	II
14.5	Environmental hazards	Unknown
14.6	Special precautions for user	Unknown
	EmS-No.:	F-E, S-E
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code	Unknown

15. Regulatory Information

^{15.1} Safety, health and environmental regulations/legislation for the substance or mixture:

U.S. Federal Regulations: As follows -

CERCLA - Sara Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Flammable (gases, aerosols, liquids, or solids), Carcinogenicity, Acute Toxicity (any route of exposure), Reproductive toxicity, Skin Corrosion or Irritation, Serious eye damage or eye irritation, Specific target organ toxicity (single or repeated exposure) Sara Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical Name	CAS-No.	<u>%</u>
META-XYLENE	108-38-3	17.93
ALUMINUM (DUST OR FUME)	7429-90-5	11.28
TOLUENE	108-88-3	9.04
PARA-XYLENE	106-42-3	7.8
ETHYL BENZENE	100-41-4	7.42
ORTHO-XYLENE	95-47-6	5.65

Toxic Substances Control Act:

All components of this product are either listed on the TSCA Inventory or are exempt.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

Chemical Name

CAS-No.

No TSCA	12(h)) components	exist in	this	product
NO TOCK	12(0)	/ componenta		1113	product.

U.S. State Regulations: As follows -

New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product.

Chemical Name

CAS-No.

TRADE SECRET

Pennsylvania Right-To-Know

The following non-hazardous ingredients are present in the product at greater than 3%.

Chemical Name	CAS-No.
SILICONE RESIN	TRADE SECRET

CALIFORNIA PROPOSITION 65

WARNING: Cancer and Reproductive Harm -- www.P65Warnings.ca.gov

International Regulations: As follows -

* Canadian DSL:

All chemical ingredients included on inventory (DSL)

15.2 Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

16. Other Information

Text for GHS Hazard Statements shown in Section 3 describing each ingredient:

10/10/	
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H261	In contact with water releases flammable gas.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H350	May cause cancer.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.
H371	May cause damage to organs.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Reasons for revision

No Information

The information contained herein is, to the best of our knowledge and belief accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.