

**Safety Data Sheet**  
acc. to OSHA HCS (29 CFR 1910.1200)



Printing date: 02/29/2016

Revision: 02/29/2016

## 1 Identification

- **Product identifier**
- **Trade name:** FlintCoat™ A300
- **Product code:** 402414 (5 Gallon), 406499 (55 Gallon)
- **Recommended use and restriction on use**
- **Recommended use:** Reflective coating
- **Restrictions on use:** See Sections 8 and 10 for further information.
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**  
CertainTeed Corporation  
20 Moores Road  
Malvern, PA 19355  
610-893-6000
- **Emergency telephone number:**  
CHEMTREC  
1-800-424-9300 (US/Canada)  
+01 703-527-3887 (International)

## 2 Hazard(s) identification

- **Classification of the substance or mixture**  
Flam. Liq. 3 H226 Flammable liquid and vapor.  
STOT RE 1 H372 Causes damage to the central nervous system through prolonged or repeated exposure.
- **Label elements**
- **GHS label elements**  
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms:**  
  
  
GHS02 GHS08
- **Signal word:** Danger
- **Hazard-determining components of labeling:**  
Stoddard solvent
- **Hazard statements:**  
H226 Flammable liquid and vapor.  
H372 Causes damage to the central nervous system through prolonged or repeated exposure.
- **Precautionary statements:**  
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P241 Use explosion-proof electrical/ventilating/lighting/equipment.  
P260 Do not breathe mist/vapors/spray.  
P264 Wash thoroughly after handling.  
P280 Wear protective gloves and eye protection.  
P240 Ground/bond container and receiving equipment.  
P233 Keep container tightly closed.

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P242 Use only non-sparking tools.  
 P243 Take precautionary measures against static discharge.  
 P270 Do not eat, drink or smoke when using this product.  
 P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P314 Get medical advice/attention if you feel unwell.  
 P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.  
 P403+P235 Store in a well-ventilated place. Keep cool.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Other hazards** There are no other hazards not otherwise classified that have been identified.

### 3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Components:**

8052-41-3	Stoddard solvent  Flam. Liq. 3, H226  STOT RE 1, H372; Asp. Tox. 1, H304	25-50%
7429-90-5	aluminum	10-25%
64741-93-4	Bitumen	10-25%
64742-95-6	Solvent naphtha (petroleum), light arom.  Flam. Liq. 3, H226  Asp. Tox. 1, H304	1-10%
9004-34-6	Cellulose	1-10%

· **Additional information:**

For the listed ingredient(s), the identity and exact percentage(s) are being withheld as a trade secret.  
 For the wording of the listed Hazard Statements refer to section 16.

### 4 First-aid measures

· **Description of first aid measures**

· **After inhalation:**

Respiration of particulates is unlikely during normal usage.  
 Supply fresh air; consult doctor in case of complaints.

· **After skin contact:**

Immediately remove any clothing soiled by the product.  
 Wash with soap and water.  
 If skin irritation is experienced, consult a doctor.

· **After eye contact:**

Remove contact lenses if worn, if possible.  
 Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:**

Unlikely route of exposure.  
 Rinse out mouth and then drink plenty of water.

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Do not induce vomiting; immediately call for medical help.

· **Most important symptoms and effects, both acute and delayed:**

Headache  
Breathing difficulty  
Coughing  
Slight irritant effect on eyes.  
Nausea in case of ingestion.  
Gastric or intestinal disorders when ingested.  
Vomiting.  
Diarrhea.

· **Danger:**

Danger through skin absorption.  
Repeated exposure may cause skin dryness or cracking.  
Causes damage to the central nervous system through prolonged or repeated exposure.

· **Indication of any immediate medical attention and special treatment needed:** Treat symptomatically.

## 5 Fire-fighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:**

Water fog / haze  
Foam  
Carbon dioxide  
Gaseous extinguishing agents  
Fire-extinguishing powder

· **For safety reasons unsuitable extinguishing agents:** Water stream.

· **Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

· **Advice for firefighters**

· **Protective equipment:**

Wear self-contained respiratory protective device.  
Wear fully protective suit.

· **Additional information:**

Eliminate all ignition sources if safe to do so.  
Cool endangered receptacles with water fog.

## 6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures:**

Ensure adequate ventilation.  
Wear protective equipment. Keep unprotected persons away.  
Keep away from ignition sources.  
Protect from heat.

· **Environmental precautions:** Avoid release to the environment.

· **Methods and material for containment and cleaning up:**

Allow to solidify. Pick up mechanically.  
Absorb liquid components with liquid-binding material.

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Send for recovery or disposal in suitable receptacles.

· **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.

## 7 Handling and storage

· **Handling**

· **Precautions for safe handling:**

Use only in well ventilated areas.

Avoid splashes or spray in enclosed areas.

Rags, metal wools / cuttings / shavings and waste papers soaked with product must be placed in a sealed metal container rated for flammable waste.

· **Information about protection against explosions and fires:**

Flammable liquid and vapor.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

Do not spray on a naked flame or any incandescent material.

Flammable gas-air mixtures may be formed in empty containers/receptacles.

Emergency cooling must be available in case of nearby fire.

· **Conditions for safe storage, including any incompatibilities**

· **Storage**

· **Requirements to be met by storerooms and receptacles:**

Avoid storage near extreme heat, ignition sources or open flame.

Provide ventilation for receptacles.

· **Information about storage in one common storage facility:**

Store away from foodstuffs.

Store away from oxidizing agents.

Do not store together with alkalis (caustic solutions).

· **Further information about storage conditions:** Keep containers tightly sealed.

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

## 8 Exposure controls/personal protection

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

**8052-41-3 Stoddard solvent**

PEL (USA)	Long-term value: 2900 mg/m <sup>3</sup> , 500 ppm
REL (USA)	Long-term value: 350 mg/m <sup>3</sup> Ceiling limit value: 1800* mg/m <sup>3</sup> *15-min
TLV (USA)	Long-term value: 525 mg/m <sup>3</sup> , 100 ppm

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EL (Canada)	Short-term value: 580 mg/m <sup>3</sup> Long-term value: 290 mg/m <sup>3</sup>
EV (Canada)	Long-term value: 525 mg/m <sup>3</sup>
LMPE (Mexico)	Long-term value: 100 ppm

**7429-90-5 aluminum**

PEL (USA)	Long-term value: 15*; 5** mg/m <sup>3</sup> *Total dust; ** Respirable fraction
REL (USA)	Long-term value: 10* 5** mg/m <sup>3</sup> as Al*Total dust**Respirable/pyro powd./welding f.
TLV (USA)	Long-term value: 1* mg/m <sup>3</sup> as Al; *as respirable fraction
EL (Canada)	Long-term value: 1.0 mg/m <sup>3</sup> respirable, as Al
EV (Canada)	Long-term value: 5 mg/m <sup>3</sup> aluminium-containing (as aluminium)
LMPE (Mexico)	Long-term value: 1* mg/m <sup>3</sup> A4, *fracción respirable

**64741-93-4 Bitumen**

ACGIH (USA)	Short-term value: 5 mg/m <sup>3</sup>
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**9004-34-6 Cellulose**

PEL (USA)	Long-term value: 15* 5** mg/m <sup>3</sup> *total dust **respirable fraction
REL (USA)	Long-term value: 10* 5** mg/m <sup>3</sup> *total dust **respirable fraction
TLV (USA)	Long-term value: 10 mg/m <sup>3</sup>
EL (Canada)	Long-term value: 10* 3** mg/m <sup>3</sup> *total dust, **respirable fraction
EV (Canada)	Long-term value: 10 mg/m <sup>3</sup> paper fibre, total dust
LMPE (Mexico)	Long-term value: 10 mg/m <sup>3</sup>

· **Exposure controls**· **Personal protective equipment:**· **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Do not breathe fume.

Avoid close or long term contact with the skin.

Avoid contact with the eyes.

· **Engineering controls:** No relevant information available.· **Breathing equipment:**

Not required under normal conditions of use.

Use suitable respiratory protective device in case of insufficient ventilation.

For large spills, respiratory protection may be advisable.

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- **Protection of hands:**  
Wear gloves for the protection against mechanical hazards according to OSHA and NIOSH rules.  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
- **Eye protection:** Follow OSHA or EU guidelines concerning the use of protective eyewear.
- **Body protection:** Protective work clothing
- **Limitation and supervision of exposure into the environment**  
Avoid release to the environment.
- **Risk management measures** See Section 7 for additional information.

## 9 Physical and chemical properties

### · Information on basic physical and chemical properties

#### · Appearance:

Form:	Liquid
Color:	Black
Odor:	Petroleum-like
Odor threshold:	Not determined.

pH-value:	Not determined.
Melting point/Melting range:	Not determined.
Boiling point/Boiling range:	149-177 °C (300-351 °F)

Flash point:	40 °C (104 °F) (PMCC)
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Flammability (solid, gaseous):	Not applicable.
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Auto-ignition temperature:	Not determined.
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Decomposition temperature:	Not determined.
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Auto igniting:	Product is not self-igniting.
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Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
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#### · Explosion limits

Lower:	Not determined.
Upper:	Not determined.

Oxidizing properties:	Not determined.
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Vapor pressure at 20 °C (68 °F):	3 hPa (2 mm Hg)
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Density:	Not determined.
Relative density:	Not determined.
Vapor density:	>4 g/cm <sup>3</sup> (>33.38 lbs/gal) (Air = 1)
Evaporation rate at 25 °C (77 °F):	0.2 (butyl acetate = 1)

#### · Solubility in / Miscibility with

Water:	Not miscible or difficult to mix.
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Partition coefficient (n-octanol/water):	Not determined.
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- **Viscosity**
  - Dynamic:** Not determined.
  - Kinematic:** Not determined.
- **Other information** No relevant information available.

## 10 Stability and reactivity

- **Reactivity:** No relevant information available.
- **Chemical stability:** Stable under normal temperatures and pressures.
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions:**  
Flammable liquid and vapor.  
Reacts with oxidizing agents.  
Reacts with acids.  
Reacts with strong alkali.  
Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomized.
- **Conditions to avoid:**  
Excessive heat.  
Store away from oxidizing agents.
- **Incompatible materials:**  
Oxidizing agents  
Strong acids
- **Hazardous decomposition products:**  
Carbon monoxide and carbon dioxide  
Toxic metal compounds

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

**64742-95-6 Solvent naphtha (petroleum), light arom.**

Oral	LD50	>6800 mg/kg (rat)
Dermal	LD50	>3400 mg/kg (rab)
Inhalative	LC50/4h	>10.2 mg/l (rat)

- **Primary irritant effect:**
- **On the skin:** Slight irritant effect on skin and mucous membranes.
- **On the eye:** Slight irritant effect on eyes.
- **Sensitization:** Based on available data, the classification criteria are not met.

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- **Carcinogenic categories**

<b>· IARC (International Agency for Research on Cancer):</b>
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None of the ingredients are listed.
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<b>· NTP (National Toxicology Program):</b>
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None of the ingredients are listed.
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<b>· OSHA-Ca (Occupational Safety &amp; Health Administration):</b>
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None of the ingredients are listed.
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- **Probable route(s) of exposure:**

- Inhalation.

- Eye contact.

- Skin contact.

- **Acute effects (acute toxicity, irritation and corrosivity):**

- Irritating if inhaled, causing symptoms of coughing and shortness of breath.

- May cause gastro-intestinal irritation if ingested.

- **Repeated dose toxicity:** Danger of very serious irreversible effects.

- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.

- **Carcinogenicity:** Based on available data, the classification criteria are not met.

- **Reproductive toxicity:** Based on available data, the classification criteria are not met.

- **STOT-single exposure:** Based on available data, the classification criteria are not met.

- **STOT-repeated exposure:**

- Causes damage to the central nervous system through prolonged or repeated exposure.

- **Aspiration hazard:** Based on available data, the classification criteria are not met.

## 12 Ecological information

- **Toxicity**

- **Aquatic toxicity** The product contains materials that are harmful to the environment.

- **Persistence and degradability** No relevant information available.

- **Bioaccumulative potential:** No relevant information available.

- **Mobility in soil:** No relevant information available.

- **Ecotoxicological effects:**

- **Remark:** Due to mechanical actions of the product (e.g. agglutinations), damages may occur.

- **Additional ecological information**

- **General notes:** Avoid release to the environment.

- **Other adverse effects:** No relevant information available.

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## 13 Disposal considerations

- **Waste treatment methods**

- **Recommendation:**

Can be disposed of with household garbage after solidification following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

- **Uncleaned packagings**

- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- **UN-Number**

- **DOT**

NA1993

Reclassified as combustible under US DOT regulations. Labeling is only required for single packages  $\geq 119$  US gal / 450 L to include Combustible symbol and Proper Shipping Name.

- **ADR, IMDG, IATA**

UN1999

- **UN proper shipping name**



Limited Quantity for packages less than 30 kg (66 lb) and inner packagings less than 5 L (1.3 gal).

- **DOT**

Combustible liquid, n.o.s. (Stoddard solvent, Bitumen, Solvent naphtha)

- **ADR**

1999 TARS, LIQUID

- **IMDG**

TARS, LIQUID

- **IATA**

Tars, liquid

- **Transport hazard class(es)**

- **DOT**



- **Class**

3 Combustible liquids

- **Label**

3

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## · ADR



· Class 3 (F1) Flammable liquids  
 · Label 3

## · IMDG, IATA



· Class 3 Flammable liquids  
 · Label 3

## · Packing group

· DOT, ADR, IMDG, IATA III

## · Environmental hazards

· Marine pollutant: No

## · Special precautions for user

Warning: Flammable liquids

## · Danger code (Kemler):

30

## · EMS Number:

F-E,S-E

· Transport in bulk according to Annex II of  
 MARPOL73/78 and the IBC Code

Not applicable.

## · Transport/Additional information:

· IATA Limited quantity by air: 10L

## 15 Regulatory information

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

· United States (USA)

· SARA

· Section 302 (extremely hazardous substances):

None of the ingredients are listed.

· Section 304 (emergency release notification):

None of the ingredients are listed.

· Sections 311/312 (hazardous chemical threshold planning quantity in pounds):

None of the ingredients are listed.

· Section 355 (extremely hazardous substances):

None of the ingredients are listed.

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<b>Section 313 (Specific toxic chemical listings):</b>	
7429-90-5	aluminum

<b>TSCA (Toxic Substances Control Act)</b>	
All ingredients are listed.	

<b>Proposition 65 (California)</b>	
All ingredients are listed.	

<b>Chemicals known to cause cancer:</b>	
None of the ingredients are listed.	

<b>Chemicals known to cause reproductive toxicity for females:</b>	
None of the ingredients are listed.	

<b>Chemicals known to cause reproductive toxicity for males:</b>	
None of the ingredients are listed.	

<b>Chemicals known to cause developmental toxicity:</b>	
None of the ingredients are listed.	

<b>Carcinogenic categories</b>	
None of the ingredients are listed.	

<b>EPA (Environmental Protection Agency):</b>	
None of the ingredients are listed.	

<b>IARC (International Agency for Research on Cancer):</b>	
None of the ingredients are listed.	

<b>NIOSH-Ca (National Institute for Occupational Safety and Health):</b>	
None of the ingredients are listed.	

<b>Canadian substance listings</b>	
None of the ingredients are listed.	

<b>Canadian Domestic Substances List (DSL):</b>	
All ingredients are listed.	

<b>Canadian Ingredient Disclosure list (limit 0.1%):</b>	
None of the ingredients are listed.	

<b>Canadian Ingredient Disclosure list (limit 1%):</b>	
8052-41-3	Stoddard solvent
7429-90-5	aluminum

## 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.

• **Date of preparation / last revision** 02/29/2016 / -

• **Abbreviations and acronyms:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NIOSH: National Institute for Occupational Safety

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OSHA: Occupational Safety &amp; Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Flam. Liq. 3: Flammable liquids, Hazard Category 3

STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1

Asp. Tox. 1: Aspiration hazard, Hazard Category 1

**Sources**Website, European Chemicals Agency ([echa.europa.eu](http://echa.europa.eu))Website, US EPA Substance Registry Services ([ofmpub.epa.gov/sorinternet/registry/substreg/home/overview/home.do](http://ofmpub.epa.gov/sorinternet/registry/substreg/home/overview/home.do))Website, Chemical Abstracts Registry, American Chemical Society ([www.cas.org](http://www.cas.org))

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

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