

Safety Data Sheet
acc. to OSHA HCS

Printing Date 03/05/2015

Revision Number 1

Revision Date 02/07/2013

1 Identification

- **Product identifier**
- **Trade name:** 14001 (Craigseal 2500HC - Scratch Off Coating)
- **Article number:** 14001
- **Relevant identified uses of the substance or mixture.** No further relevant information available.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Royal Adhesives And Sealants, LLC
2001 W. Washington Street
South Bend IN 46628-2023
Information Phone Number: 574-246-5000
- **Information department:** Environment protection department.
- **Emergency telephone number:**
ChemTrec: Day or Night within USA and Canada: 1-800-424-9300.
Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

2 Hazard(s) identification

- **Classification of the substance or mixture**
This classification (for Aluminum Powder) applies if the solvent is driven off the product.



GHS02 Flame

Flam. Liq. 3 H226 Flammable liquid and vapour.
Water-react. 1 H260 In contact with water releases flammable gases which may ignite spontaneously.
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- **Label elements**
- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS02

- **Signal word** Danger
- **Hazard statements**
Flammable liquid and vapour.
In contact with water releases flammable gases which may ignite spontaneously.
Harmful to aquatic life with long lasting effects.
- **Precautionary statements**
If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read label before use.
Keep away from any possible contact with water, because of violent reaction and possible flash fire.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

(Contd. on page 2)

USA

Safety Data Sheet

acc. to OSHA HCS

Printing Date 03/05/2015

Revision Number 1

Revision Date 02/07/2013

Trade name: 14001 (Craigseal 2500HC - Scratch Off Coating)

(Contd. of page 1)

Handle under inert gas. Protect from moisture.
 Use explosion-proof electrical/ventilating/lighting/equipment.
 Wear protective gloves / eye protection / face protection.
 Ground/bond container and receiving equipment.
 Keep container tightly closed.
 Use only non-sparking tools.
 Avoid release to the environment.
 Take precautionary measures against static discharge.
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 In case of fire: Use for extinction: CO₂, sand, extinguishing powder.
 Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages.
 Store in a well-ventilated place. Keep cool.
 Store in a dry place. Store in a closed container.
 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 2

Fire = 3

Reactivity = 2

· **HMIS-ratings (scale 0 - 4)**

HEALTH	2	Health = 2
FIRE	3	Fire = 3
PHYSICAL HAZARD	2	Physical Hazard = 2

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Solvent Based Silver Scratch Off Coating

· **Dangerous components:**

and Non-Dangerous Components:

64742-89-8	Solvent naphtha (petroleum), light aliph.(VM&P)	5-20%
7429-90-5	Aluminium	5-20%
1332-58-7	Kaolin	5-20%
13463-67-7	titanium dioxide	5-20%
	Polymer	2.5-10%
64742-95-6	Solvent naphtha (petroleum), light arom.	2.5-10%
14808-60-7	Quartz (SiO ₂)	2.5-10%
	Amorphous Fumed Silica	≤2.5%
1330-20-7	xylene	≤2.5%
128-37-0	2,6-di-tert-butyl-p-cresol	≤0.5%

· **Additional information:**

All concentrations are in percent by weight unless the ingredient is a gas. Gas concentrations are in percent by volume. Any pigments or fillers in this product which may be considered "Hazardous" are potentially hazardous only if inhaled as an airborne dust. Exposure by these ingredients as used in sealants, putties, bedding

(Contd. on page 3)

Safety Data Sheet

acc. to OSHA HCS

Printing Date 03/05/2015

Revision Number 1

Revision Date 02/07/2013

Trade name: 14001 (Craigseal 2500HC - Scratch Off Coating)

(Contd. of page 2)

compounds and non-sprayable products is highly unlikely. For the wording of the listed risk phrases refer to section 15.

4 First-aid measures

- **Description of first aid measures**
- **After inhalation:**
Call a doctor immediately.
Overexposure, remove to fresh air and seek medical attention.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** Seek medical treatment.
- **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, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:** Water
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** Protective clothing and respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation
Wear protective equipment. Keep unprotected persons away.
- **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 of contaminated material as waste in accordance with federal state and local regulations.
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.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Open and handle receptacle with care.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

(Contd. on page 4)

Safety Data Sheet

acc. to OSHA HCS

Printing Date 03/05/2015

Revision Number 1

Revision Date 02/07/2013

Trade name: 14001 (Craigseal 2500HC - Scratch Off Coating)

(Contd. of page 3)

Keep respiratory protective device available.

- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location away from direct heat.
- **Information about storage in one common storage facility:** Store away from oxidizing agents.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **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:**

1332-58-7 Kaolin

PEL Long-term value: 15* 5** mg/m³

*total dust **respirable fraction

REL Long-term value: 10* 5** mg/m³

*total dust **respirable fraction

TLV Long-term value: 2* mg/m³

E; as respirable fraction

13463-67-7 titanium dioxide

PEL Long-term value: 15* mg/m³

*total dust

REL See Pocket Guide App. A

TLV Long-term value: 10 mg/m³

withdrawn from NIC

14808-60-7 Quartz (SiO₂)

PEL see Quartz listing

REL Long-term value: 0.05* mg/m³

*respirable dust; See Pocket Guide App. A

TLV Long-term value: 0.025* mg/m³

*as respirable fraction

1330-20-7 xylene

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: 651 mg/m³, 150 ppm

Long-term value: 434 mg/m³, 100 ppm

BEI

128-37-0 2,6-di-tert-butyl-p-cresol

REL Long-term value: 10 mg/m³

TLV Long-term value: 2* mg/m³

*as inhalable fraction and vapor

(Contd. on page 5)

USA

Safety Data Sheet

acc. to OSHA HCS

Printing Date 03/05/2015

Revision Number 1

Revision Date 02/07/2013

Trade name: 14001 (Craigseal 2500HC - Scratch Off Coating)

(Contd. of page 4)

· Ingredients with biological limit values:

1330-20-7 xylene

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 (see listings below)

· 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.

Store protective clothing separately.

· Breathing equipment:

Use approved respiratory protection equipment when airborne exposure is excessive. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· Material of gloves

Nitrile rubber, NBR

Chloroprene rubber, CR

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.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:

Safety glasses with side shields.



Tightly sealed goggles

· Body protection: Protective work clothing

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form:

Liquid

Color:

Silver grey

· Odor:

Characteristic

· Odour threshold:

Not determined.

(Contd. on page 6)

Safety Data Sheet

acc. to OSHA HCS

Printing Date 03/05/2015

Revision Number 1

Revision Date 02/07/2013

Trade name: 14001 (Craigseal 2500HC - Scratch Off Coating)

(Contd. of page 5)

· pH-value:	Not determined.
· Change in condition	
Melting point:	Undetermined.
· Boiling point:	
· Flash point:	38 °C (100 °F)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	400 °C (752 °F)
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Flammable limits:	
Lower:	% by volume = .9
Upper:	% by volume = 6.7
· Vapor pressure:	Not determined.
· Specific gravity:	
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	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:	28.3 %
· Other information	No further relevant information available.

* 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** Contact with water releases flammable gases.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** Reacts with oxidizing agents.
- **Hazardous decomposition products:**
Carbon monoxide and carbon dioxide
Hydrocarbons

USA

(Contd. on page 7)

Safety Data Sheet

acc. to OSHA HCS

Printing Date 03/05/2015

Revision Number 1

Revision Date 02/07/2013

Trade name: 14001 (Craigseal 2500HC - Scratch Off Coating)

(Contd. of page 6)

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	LC50/4 h	>10.2 mg/l (rat)
------------	----------	------------------

- **Primary irritant effect:**

- **on the skin:** Irritant to skin and mucous membranes.

- **on the eye:** Irritating effect.

- **Sensitization:** Skin Contact - May cause allergic skin reaction.

- **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Irritant

The product can cause inheritable damage.

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

13463-67-7	titanium dioxide	2B
------------	------------------	----

	Polymer	3
--	---------	---

14808-60-7	Quartz (SiO ₂)	1
------------	----------------------------	---

1330-20-7	xylene	3
-----------	--------	---

128-37-0	2,6-di-tert-butyl-p-cresol	3
----------	----------------------------	---

- **NTP (National Toxicology Program)**

14808-60-7	Quartz (SiO ₂)	K
------------	----------------------------	---

- **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 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

(Contd. on page 8)

Safety Data Sheet

acc. to OSHA HCS

Printing Date 03/05/2015

Revision Number 1

Revision Date 02/07/2013

Trade name: 14001 (Craigseal 2500HC - Scratch Off Coating)



(Contd. of page 7)

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

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Must be specially treated adhering to official regulations.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **UN-Number**
- **DOT, ADR, IMDG, IATA** UN1263
- **UN proper shipping name**
- **DOT, IMDG, IATA** PAINT
- **ADR** 1263 PAINT
- **Transport hazard class(es)**
- **DOT**
- 
- **Class** 3 Flammable liquids
- **Label** 3
- **ADR, IMDG, IATA**
- 
- **Class** 3 Flammable liquids
- **Label** 3
- **Packing group**
- **DOT, ADR, IMDG, IATA** III
- **Environmental hazards:** Not applicable.
- **Special precautions for user** Warning: Flammable liquids
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
- **UN "Model Regulation":** UN1263, PAINT, 3, III

USA

(Contd. on page 9)

Safety Data Sheet

acc. to OSHA HCS

Printing Date 03/05/2015

Revision Number 1

Revision Date 02/07/2013

Trade name: 14001 (Craigseal 2500HC - Scratch Off Coating)

(Contd. of page 8)

15 Regulatory information

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

· **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

7429-90-5 aluminium powder

1330-20-7 xylene

· **TSCA (Toxic Substances Control Act):**

All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

· **Proposition 65**

· **Chemicals known to cause cancer:**

64742-89-8 Solvent naphtha (petroleum), light aliph.(VM&P)

· **Chemicals known to cause reproductive toxicity:**

None of the ingredients is listed.

· **(DSL) Canada Domestic Substance List**

All components of this product are on the DSL(Canada Domestic Substance list) or are exempt from DSL requirements.

· **Carcinogenicity categories**

· **EPA (Environmental Protection Agency)**

1330-20-7 xylene

I

· **TLV (Threshold Limit Value established by ACGIH)**

7429-90-5 aluminium powder

A4

1332-58-7 Kaolin

A4

13463-67-7 titanium dioxide

A4

14808-60-7 Quartz (SiO₂)

A2

1330-20-7 xylene

A4

128-37-0 2,6-di-tert-butyl-p-cresol

A4

· **MAK (German Maximum Workplace Concentration)**

13463-67-7 titanium dioxide

3A

14808-60-7 Quartz (SiO₂)

I

128-37-0 2,6-di-tert-butyl-p-cresol

4

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

13463-67-7 titanium dioxide

14808-60-7 Quartz (SiO₂)

· **National regulations:**

· **Information about limitation of use:**

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

· **Water hazard class:** Water hazard class 3 (Self-assessment): extremely hazardous for water.

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

USA

(Contd. on page 10)

Safety Data Sheet

acc. to OSHA HCS

Printing Date 03/05/2015

Revision Number 1

Revision Date 02/07/2013

Trade name: 14001 (Craigseal 2500HC - Scratch Off Coating)

(Contd. of page 9)

16 Other information

Although the information and recommendations set forth in this SDS are presented in good faith and are believed to be correct as of the date of this SDS, Royal Adhesives & Sealants makes no representations as to the completeness or accuracy thereof. Information is supplied on the condition that the persons receiving and using it will make their own determination as to the suitability for their purpose prior to use. In no event will Royal Adhesives & Sealants or any affiliate thereof be responsible for damages of any nature whatsoever resulting from the use or reliance on the information set forth in the SDS.

· **Department issuing SDS:** Environment protection department.

· **Creation Date:** 06/26/2012

· **Date of preparation / last revision** 03/05/2015 / -

· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (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

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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

Water-react. 1: Substances and Mixtures which, in contact with water, emit flammable gases, Hazard Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

USA