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Safety Data Sheet acc. to OSHA HCS

Printing date 10/19/2015

Reviewed on 10/10/2015

1 Identification · Product identifier • Trade name: CarTech 6305 · Application of the substance / the mixture Metal working · Details of the supplier of the safety data sheet · Manufacturer/Supplier: Carpenter Technology Corp PO Box 14662, Reading, PA 19612 110 West Bern Street READING, PA 19601 USA · Information department: Health and Safety Department • Emergency telephone number: During normal opening times: +1 (610) 208-2134 **2** Hazard(s) identification · Classification of the substance or mixture GHS08 Health hazard Carc. 2 H351 Suspected of causing cancer. Repr. 1A H360 May damage fertility or the unborn child. STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure. GHS07 Skin Sens. 1 H317 May cause an allergic skin reaction. · Label elements • GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms GHS07 GHS08 · Signal word Danger · Hazard-determining components of labeling: lead nickel · Hazard statements May cause an allergic skin reaction. Suspected of causing cancer. May damage fertility or the unborn child. (Contd. on page 2) US

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Trade name: CarTech 6305

	(Contd. of page 1)
May cause damage to organs through prolonged or repeated exposure.	
Precautionary statements	
Do not breathe dust/fume/gas/mist/vapors/spray.	
Wear protective gloves.	
Contaminated work clothing must not be allowed out of the workplace.	
Obtain special instructions before use.	
Do not handle until all safety precautions have been read and understood.	
Specific treatment (see on this label).	
Wash contaminated clothing before reuse.	
IF exposed or concerned: Get medical advice/attention.	
If skin irritation or rash occurs: Get medical advice/attention.	
Get medical advice/attention if you feel unwell.	
IF ON SKIN: Wash with plenty of water.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/international regulation	<i>15</i> .
Classification system:	
NFPA ratings (scale 0 - 4)	
$\begin{array}{c} \mathbf{H}ealth = 1\\ Fire = 0 \end{array}$	
$\mathbf{V} \mathbf{R} = 0$	
HMIS-ratings (scale 0 - 4)	
HEALTH *0 $Health = *0$	
FIRE 0 $Fire = 0$	
$\begin{array}{c} \text{REACTIVITY} \hline 0 \\ \text{REACTIVITY} \hline 0 \\ \end{array} \\ \begin{array}{c} \text{Reactivity} = 0 \\ \end{array} \end{array}$	
REACTIVITY 0 Reactivity $= 0$	
Other hazards	
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 c	· Dangerous components:		
7429-90-5 a	luminium	≤10%	
	ed phosphorus	≤10%	
7440-32-6 ti	itanium	≤10%	
7704-34-9 s	ulfur	<i>1-≤</i> 2.5%	
7440-31-5 ti	in	0.1-≤2.5%	
7440-47-3 с	hromium	<i>0.1-≤</i> 2.5%	
7439-92-1 la	ead	<i>0.1-≤</i> 2.5%	
7440-02-0 n	ickel	0.1-<1%	

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4 First-aid measures

· Description of first aid measures

· General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

• 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.
- · After eye contact: Rinse opened eye for several minutes under running water.
- 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: The product is not flammable.
- \cdot Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.
- Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.

- Environmental precautions: No special measures required.
- Methods and material for containment and cleaning up: No special measures required.
- · 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 Not applicable.
- · Information about protection against explosions and fires: Not applicable.
- · 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.

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US

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• *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.

Com	ponents with limit values that require monitoring at the workplace:	
7429	-90-5 aluminium	
PEL	Long-term value: 15*; 15** mg/m ³ *Total dust; ** Respirable fraction	
REL	Long-term value: 10* 5** mg/m ³ as Al*Total dust**Respirable/pyro powd./welding f.	
7723	-14-0 red phosphorus	
	Long-term value: 0.1 mg/m ³	
7440	-31-5 tin	
PEL	Long-term value: 2 mg/m ³ metal	
REL	Long-term value: 2 mg/m ³	
TLV	Long-term value: 2 mg/m ³ metal	
7440	-47-3 chromium	
PEL	Long-term value: 1* 0.5** mg/m ³ *metal;**inorganic compds., as Cr	
REL	Long-term value: 0.5* mg/m³ *metal+inorg.compds.as Cr;See Pocket Guide App. C	
TLV	Long-term value: 0.5 mg/m ³	
7439	-92-1 lead	
PEL	Long-term value: 0.05* mg/m ³ *see 29 CFR 1910.1025	
REL	Long-term value: 0.05* mg/m³ *8-hr TWA,excl. lead arsenate;See PocketGuideApp.C	
TLV	Long-term value: 0.05* mg/m ³ *and inorganic compounds, as Pb; BEI	
7440	-02-0 nickel	
PEL	Long-term value: 1 mg/m ³	
REL	Long-term value: 0.015 mg/m³ as Ni; See Pocket Guide App. A	
TLV	Long-term value: $1.5* \text{ mg/m}^3$ elemental, *inhalable fraction	

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Ingredients with biological limit values: 7439-92-1 lead BEI 30 µg/100 ml Medium: blood Time: not critical Parameter: Lead 10 µg/100 ml Medium: blood Time: not critical Parameter: Lead (women of child bearing potential) Additional information: The lists that were valid during the creation were used as basis. Exposure controls Personal protective equipment: General protective equipment: General protective equipment: General protective and hygenicn massures: Keep away from foodstuffs, beverages and feed. Immediately remove all solied and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure or respiratory protective device that is independent of circulating air. Protection of hands: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation. Due to missing tests no recommendation to the glove material on consideration of the penetration times, rates of diffusion and the degradation Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality of varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistant of the glove material can not be calculated in advance and has therefore to be checked prior to the		(Contd. of page 4
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Information on basic physical and	chemical properties	
General Information		
· Appearance: Form:	Solid	
Color:	According to product specification	
· Odor:	Characteristic	
Odour threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	416 °C (781 °F)	
· Flash point:	Not applicable.	
· Flammability (solid, gaseous):	Not determined.	
Ignition temperature:	300 °C (572 °F)	
Decomposition temperature:	Not determined.	
• Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard. Explosive when mixed with oxidising substances.	
· Explosion limits:		
Lower:	0.0 Vol %	
Upper:	0.0 Vol %	
· Vapor pressure:	Not applicable.	
• Density at 20 •C (68 •F):	6.25601 g/cm ³ (52.206 lbs/gal)	
Relative density	Not determined.	
· Vapour density	Not applicable.	
• Evaporation rate	Not applicable.	
· Solubility in / Miscibility with		
Water:	Insoluble.	
· Partition coefficient (n-octanol/wat	t er): Not determined.	
· Viscosity:	· · · ·	
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
Solvent content: Organic solvents:	0.0 %	
Solids content:	90.4 %	
• Other information	No further relevant information available.	

10 Stability and reactivity

• **Reactivity** No further relevant information available.

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- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- \cdot 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:
- · Primary irritant effect:
- on the skin: No irritant effect.
- \cdot on the eye: No irritating effect.
- Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:

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

· Carcinogenic categories

· IARC (Inte	rnational Agency for Research on Cancer)	
7440-47-3	chromium	3
7439-92-1	lead	2B
7440-02-0	nickel	1
· NTP (Natio	onal Toxicology Program)	
7439-92-1	lead	R
7440-02-0	nickel	R
· 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.

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13 Disposal considerations

• Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packagings:

• Recommendation: Disposal must be made according to official regulations.

Transport information		
UN-Number DOT, ADN, IMDG, IATA	not regulated	
UN proper shipping name DOT, ADN, IMDG, IATA	not regulated	
Transport hazard class(es)		
DOT, ADN, IMDG, IATA Class	not regulated	
Packing group DOT, IMDG, IATA	not regulated	
Environmental hazards: Marine pollutant:	No	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.	
UN ''Model Regulation'':	not regulated	

15 Regulatory information

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara

· Section 35.	· Section 355 (extremely hazardous substances):		
7723-14-0	red phosphorus		
· Section 31.	3 (Specific toxic chemical listings):		
7429-90-5	aluminium		
7723-14-0	red phosphorus		
7440-47-3	chromium		
7439-92-1	lead		
7439-96-5	manganese		
7440-50-8	copper		
7440-62-2	vanadium		
7440-02-0	nickel		
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· TSCA (To	xic Substances Control Act):	
All ingredi	ents are listed.	
· Propositio	n 65	
· Chemicals	known to cause cancer:	
7439-92-1	lead	
7440-02-0	nickel	
· Chemicals	known to cause reproductive toxicity for females:	
7439-92-1	lead	
· Chemicals	known to cause reproductive toxicity for males:	
7439-92-1	lead	
· Chemicals	known to cause developmental toxicity:	
7439-92-1	lead	
· Carcinoge	nic categories	
	ironmental Protection Agency)	
7723-14-0	red phosphorus	D
7440-47-3	chromium	D
7439-92-1	lead	B2
7439-96-5	manganese	D

7440-02-0 nickel
• GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
• Hazard pictograms



7440-50-8 copper

7429-90-5 aluminium

7440-47-3 chromium

7439-98-7 molybdenum

7439-92-1 lead

7440-02-0 nickel

· Signal word Danger

Hazard-determining components of labeling: lead nickel
Hazard statements May cause an allergic skin reaction. Suspected of causing cancer. May damage fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.

· TLV (Threshold Limit Value established by ACGIH)

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

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Precautionary statements
Do not breathe dust/fume/gas/mist/vapors/spray.
Wear protective gloves.
Contaminated work clothing must not be allowed out of the workplace.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Specific treatment (see on this label).
Wash contaminated clothing before reuse.
IF exposed or concerned: Get medical advice/attention.
If skin irritation or rash occurs: Get medical advice/attention.
Get medical advice/attention if you feel unwell.
IF ON SKIN: Wash with plenty of water.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.
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: Environment protection department.

· Date of preparation / last revision 10/19/2015 / 3 · Abbreviations and acronyms: 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) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Skin Sens. 1: Sensitisation - Skin, Hazard Category 1 Carc. 2: Carcinogenicity, Hazard Category 2 Repr. 1A: Reproductive toxicity, Hazard Category 1A STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2 • * Data compared to the previous version altered.