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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 LESCO® 53
- · 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

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Carc. 2 H351 Suspected of causing cancer.

STOT RE 1 H372 Causes 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



GHS08

- · Signal word Danger
- · Hazard-determining components of labeling:

nickel

cobalt

· Hazard statements

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

Suspected of causing cancer.

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Causes damage to organs through prolonged or repeated exposure.

· Precautionary statements

Do not breathe dust/fume/gas/mist/vapors/spray.

[In case of inadequate ventilation] wear respiratory protection.

Wear protective gloves.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

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).

If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

Wash contaminated clothing before reuse.

If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.

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.

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 2Fire = 0Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = *2Fire = 0REACTIVITY 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	· Dangerous components:		
7429-90-5	aluminium	≤10%	
	red phosphorus	≤10%	
7440-31-5	tin	≤10%	
7440-32-6	titanium	≤10%	
7439-98-7	molybdenum	2.5-<10%	
7440-50-8	copper	0.1-≤2.5%	
7440-02-0	nickel	1-≤2.5%	
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7704-34-9	sulfur	1-≤2.5%
7440-47-3	chromium	0.1-≤2.5%
7440-42-8	boron	0.1-≤2.5%
7440-48-4	cobalt	0.1-<1%

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.
- · 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.

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- · 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.
- · 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 l	limit val	lues tha	ıt require	monitoring	at the	workplace:
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7429-90-5 aluminium

- PEL Long-term value: 15*; 15** mg/m³
 - $*Total\ dust;\ **Respirable\ fraction$
- REL Long-term value: 10* 5** mg/m³
 - as Al*Total dust**Respirable/pyro powd./welding f.

7723-14-0 red phosphorus

REL Long-term value: 0.1 mg/m³

7440-31-5 tin

- PEL Long-term value: 2 mg/m³
 - metal
- REL Long-term value: 2 mg/m³
- TLV Long-term value: 2 mg/m³

metal

7439-98-7 molybdenum

- PEL Long-term value: 15* mg/m³
 - *Total dust
- TLV Long-term value: 10* 3** mg/m³
 - as Mo; *inhalable fraction ** respirable fraction

7440-50-8 copper

- PEL Long-term value: 1* 0.1** mg/m³
 - as Cu *dusts and mists **fume
- REL Long-term value: 1* 0.1** mg/m³
 - as Cu *dusts and mists **fume
- TLV Long-term value: $1*0.2**mg/m^3$
- *dusts and mists; **fume; as Cu

7440-02-0 nickel

- PEL Long-term value: 1 mg/m³
- REL Long-term value: 0.015 mg/m³
 - as Ni; See Pocket Guide App. A
- TLV Long-term value: 1.5* mg/m³ elemental, *inhalable fraction

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7440-47-3 chromium

PEL Long-term value: 1* 0.5** mg/m³

*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/m³

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · 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:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:



Protective gloves

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/ the chemical mixture.

Selection of 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 and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· 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

9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Solid

Color: According to product specification

· Odor: Characteristic

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		(Contd. of page
· Odour threshold:	Not determined.	
· pH-value:	Not applicable.	
· Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. 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): Relative density Vapour density Evaporation rate 	4.73157 g/cm³ (39.485 lbs/gal) Not determined. Not applicable. Not applicable.	
· Solubility in / Miscibility with Water:	Insoluble.	
· Partition coefficient (n-octanol/wat	ter): Not determined.	
· Viscosity: Dynamic: Kinematic:	Not applicable. Not applicable.	
· Solvent content: Organic solvents:	0.0 %	
Solids content: Other information	87.0 % No further relevant information available.	

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

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11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- · on the skin: No irritant effect.
- · on the eye: No irritating effect.
- · Sensitization:

Sensitization possible through inhalation.

Sensitization possible through skin contact.

· Additional toxicological information:

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

Irritant

· Carcinogenic categories

· IARC (Int	· IARC (International Agency for Research on Cancer)			
7440-02-0	nickel	1		
7440-47-3	chromium	3		
7440-48-4	cobalt	2B		
· NTP (Nati	ional Toxicology Program)			
7440-02-0	nickel	R		
· OSHA-Ca	(Occupational Safety & Health Administration)			
None of th	e 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.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

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

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· Uncleaned packagings:

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

UN-Number DOT, ADN, IMDG, IATA	not regulated
	noi reguiaca
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 II of	,
MARPOL73/78 and the IBC Code	Not applicable.
· UN ''Model Regulation'':	not regulated

15 Regulatory information

- $\cdot \textit{Safety, health and environmental regulations/legislation specific for the substance or \textit{mixture}}\\$
- · Sara

٠	Section	355	(extremely	hazardous	substances):
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7723-14-0 red phosphorus

· Section 313 (Specific toxic chemical listings):

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7723-14-0 red phosphorus

7440-50-8 copper

7440-02-0 nickel

7440-47-3 chromium

7439-96-5 manganese

7440-62-2 vanadium

7440-48-4 cobalt

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65

· Chemicals known to cause cancer:

7440-02-0 nickel

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7440-48-4 cobalt	
· Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
· Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
· Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	

· EPA (Envi	· EPA (Environmental Protection Agency)				
7723-14-0	red phosphorus	D			
7440-50-8	copper	D			
7440-47-3	chromium	D			
7440-42-8	boron	I (oral)			
7439-96-5	manganese	D			
· TLV (Thre	shold Limit Value established by ACGIH)				
7429-90-5	aluminium	A4			
7439-98-7	molybdenum	A3			
7440-02-0	nickel	A5			
7440-47-3	7440-47-3 chromium A				
7440-48-4	cobalt	A3			

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

7440-02-0 nickel

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



- · Signal word Danger
- · Hazard-determining components of labeling:

nickel

cobalt

· Hazard statements

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

Suspected of causing cancer.

Causes damage to organs through prolonged or repeated exposure.

· Precautionary statements

Do not breathe dust/fume/gas/mist/vapors/spray.

[In case of inadequate ventilation] wear respiratory protection.

Wear protective gloves.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Contaminated work clothing must not be allowed out of the workplace.

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Trade name: CarTech LESCO® 53

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Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Specific treatment (see on this label).

If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

Wash contaminated clothing before reuse.

If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.

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 / 4
- · 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)

 $NFPA: National\ Fire\ Protection\ Association\ (USA)$

 ${\it HMIS: Hazardous\ Materials\ Identification\ System\ (USA)}$

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Carc. 2: Carcinogenicity, Hazard Category 2

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

* Data compared to the previous version altered.

US