

## Safety Data Sheet

acc. to OSHA HCS

Printing date 11/26/2018

Reviewed on 05/11/2018

### 1 Identification

- **Product identifier**
- **Trade name: B50TF183-S4 / Rene 80 PSP Component**
- **Application of the substance / the mixture** Metal working
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Aimtek, Inc.  
201 Washington Street  
Auburn, MA 01501  
USA  
Phone: 508-832-5035
- **Emergency telephone number: 1-800-424-9300**

### 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.

(Contd. on page 2)

US

# Safety Data Sheet

acc. to OSHA HCS

Printing date 11/26/2018

Reviewed on 05/11/2018

**Trade name: B50TF183-S4 / Rene 80 PSP Component**

(Contd. of page 1)

*Causes damage to organs through prolonged or repeated exposure.*

· **Precautionary statements**

*If medical advice is needed, have product container or label at hand.*

*Keep out of reach of children.*

*Read label before use.*

*Obtain special instructions before use.*

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

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

*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.*

*Wear protective gloves/protective clothing/eye protection/face protection.*

*[In case of inadequate ventilation] wear respiratory protection.*

*If on skin: Wash with plenty of water.*

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

*IF exposed or concerned: Get medical advice/attention.*

*Specific treatment (see on this label).*

*Get medical advice/attention if you feel unwell.*

*If skin irritation or rash occurs: Get medical advice/attention.*

*If experiencing respiratory symptoms: Call a poison center/doctor.*

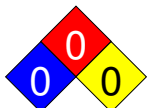
*Wash contaminated clothing before reuse.*

*Store locked up.*

*Dispose of contents/container in accordance with local/regional/national/international regulations.*

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 0

Fire = 0

Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = \*0

Fire = 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 components:**

7440-02-0	nickel	50-100%
7440-47-3	chromium	10-25%
7440-48-4	cobalt	2.5-10%
7440-32-6	titanium	2.5-10%
7439-98-7	molybdenum	2.5-10%

(Contd. on page 3)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 11/26/2018

Reviewed on 05/11/2018

**Trade name: B50TF183-S4 / Rene 80 PSP Component**

(Contd. of page 2)

7440-33-7	tungsten	2.5-10%
7429-90-5	aluminium powder (stabilised)	2.5-10%

## 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:** Special powder for metal fires. Do not use water.
- **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:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Dispose contaminated material as waste according to item 13.  
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.
- **Protective Action Criteria for Chemicals**

· <b>PAC-1:</b>		
7440-02-0	nickel	4.5 mg/m <sup>3</sup>
7440-47-3	chromium	1.5 mg/m <sup>3</sup>
7440-48-4	cobalt	0.18 mg/m <sup>3</sup>
7440-32-6	titanium	30 mg/m <sup>3</sup>
7439-98-7	molybdenum	30 mg/m <sup>3</sup>

(Contd. on page 4)

## Safety Data Sheet

acc. to OSHA HCS

Printing date 11/26/2018

Reviewed on 05/11/2018

**Trade name: B50TF183-S4 / Rene 80 PSP Component**

(Contd. of page 3)

7440-33-7	tungsten	10 mg/m <sup>3</sup>
7439-89-6	iron	3.2 mg/m <sup>3</sup>
7440-44-0	carbon	6 mg/m <sup>3</sup>
7439-96-5	manganese	3 mg/m <sup>3</sup>
7440-50-8	copper	3 mg/m <sup>3</sup>
7440-21-3	silicon	45 mg/m <sup>3</sup>
7440-25-7	tantalum	10 mg/m <sup>3</sup>
7440-03-1	niobium	30 mg/m <sup>3</sup>
7440-62-2	vanadium	3 mg/m <sup>3</sup>
7440-58-6	hafnium	1.5 mg/m <sup>3</sup>
7727-37-9	nitrogen	7.96E+05 ppm
7440-42-8	boron	1.9 mg/m <sup>3</sup>
7723-14-0	red phosphorus	0.27 mg/m <sup>3</sup>
7439-95-4	magnesium powder (pyrophoric)	18 mg/m <sup>3</sup>

**· PAC-2:**

7440-02-0	nickel	50 mg/m <sup>3</sup>
7440-47-3	chromium	17 mg/m <sup>3</sup>
7440-48-4	cobalt	2 mg/m <sup>3</sup>
7440-32-6	titanium	330 mg/m <sup>3</sup>
7439-98-7	molybdenum	330 mg/m <sup>3</sup>
7440-33-7	tungsten	330 mg/m <sup>3</sup>
7439-89-6	iron	35 mg/m <sup>3</sup>
7440-44-0	carbon	330 mg/m <sup>3</sup>
7439-96-5	manganese	5 mg/m <sup>3</sup>
7440-50-8	copper	33 mg/m <sup>3</sup>
7440-21-3	silicon	100 mg/m <sup>3</sup>
7440-25-7	tantalum	11 mg/m <sup>3</sup>
7440-03-1	niobium	330 mg/m <sup>3</sup>
7440-62-2	vanadium	5.8 mg/m <sup>3</sup>
7440-58-6	hafnium	17 mg/m <sup>3</sup>
7727-37-9	nitrogen	8.32E+05 ppm
7440-42-8	boron	21 mg/m <sup>3</sup>
7723-14-0	red phosphorus	3 mg/m <sup>3</sup>
7439-95-4	magnesium powder (pyrophoric)	200 mg/m <sup>3</sup>

**· PAC-3:**

7440-02-0	nickel	99 mg/m <sup>3</sup>
7440-47-3	chromium	99 mg/m <sup>3</sup>
7440-48-4	cobalt	20 mg/m <sup>3</sup>
7440-32-6	titanium	2,000 mg/m <sup>3</sup>
7439-98-7	molybdenum	2,000 mg/m <sup>3</sup>
7440-33-7	tungsten	2,000 mg/m <sup>3</sup>

(Contd. on page 5)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 11/26/2018

Reviewed on 05/11/2018

**Trade name: B50TF183-S4 / Rene 80 PSP Component**

(Contd. of page 4)

7439-89-6	iron	150 mg/m <sup>3</sup>
7440-44-0	carbon	2,000 mg/m <sup>3</sup>
7439-96-5	manganese	1,800 mg/m <sup>3</sup>
7440-50-8	copper	200 mg/m <sup>3</sup>
7440-21-3	silicon	630 mg/m <sup>3</sup>
7440-25-7	tantalum	64 mg/m <sup>3</sup>
7440-03-1	niobium	2,000 mg/m <sup>3</sup>
7440-62-2	vanadium	35 mg/m <sup>3</sup>
7440-58-6	hafnium	99 mg/m <sup>3</sup>
7727-37-9	nitrogen	8.69E+05 ppm
7440-42-8	boron	130 mg/m <sup>3</sup>
7723-14-0	red phosphorus	18 mg/m <sup>3</sup>
7439-95-4	magnesium powder (pyrophoric)	1,200 mg/m <sup>3</sup>

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.
- **Information about protection against explosions and fires:**  
No special measures required.  
Keep respiratory protective device available.
- **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 limit values that require monitoring at the workplace:**  
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.  
At this time, the remaining constituent has no known exposure limits.

### 7440-02-0 nickel

PEL	Long-term value: 1 mg/m <sup>3</sup>
REL	Long-term value: 0.015 mg/m <sup>3</sup> as Ni; See Pocket Guide App. A
TLV	Long-term value: 1.5* mg/m <sup>3</sup> elemental, *inhalable fraction

(Contd. on page 6)

US

## Safety Data Sheet

acc. to OSHA HCS

Printing date 11/26/2018

Reviewed on 05/11/2018

**Trade name: B50TF183-S4 / Rene 80 PSP Component**

(Contd. of page 5)

**7440-47-3 chromium**

PEL	Long-term value: 1 mg/m <sup>3</sup>
REL	Long-term value: 0.5* mg/m <sup>3</sup> *metal+inorg.compds.as Cr; See Pocket Guide App. C
TLV	Long-term value: 0.003* 0.5** mg/m <sup>3</sup> inh. fraction, *as Cr(III), **metal

**7440-48-4 cobalt**

PEL	Long-term value: 0.1* mg/m <sup>3</sup> as Co; *for metal dust and fume
REL	Long-term value: 0.05 mg/m <sup>3</sup> as Co; metal dust & fume
TLV	Long-term value: (0.02) NIC-0.02* mg/m <sup>3</sup> *inh. fraction; NIC-Skin, DSEN, RSEN, BEI

**7439-98-7 molybdenum**

PEL	Long-term value: 15* mg/m <sup>3</sup> *Total dust, as Mo
TLV	Long-term value: 10* 3** mg/m <sup>3</sup> as Mo; *inhalable fraction ** respirable fraction

**7440-33-7 tungsten**

PEL	and insoluble compounds, as We
REL	Short-term value: 10 mg/m <sup>3</sup> Long-term value: 5 mg/m <sup>3</sup> as W
TLV	Long-term value: 3* mg/m <sup>3</sup> as W; * respirable fraction

**7429-90-5 aluminium powder (stabilised)**

PEL	Long-term value: 15*; 5** mg/m <sup>3</sup> *Total dust; ** Respirable fraction
REL	Long-term value: 10* 5** mg/m <sup>3</sup> as Al*Total dust**Respirable/pyro powd./welding f.
TLV	Long-term value: 1* mg/m <sup>3</sup> as Al; *as respirable fraction

**· Ingredients with biological limit values:****7440-48-4 cobalt**

BEI	15 µg/L Medium: urine Time: end of shift at end of workweek Parameter: Cobalt (background)
	1 µg/L Medium: blood Time: end of shift at end of workweek Parameter: Cobalt (background, semi-quantitative)

· **Additional information:** The lists that were valid during the creation were used as basis.

(Contd. on page 7)

US

# Safety Data Sheet

acc. to OSHA HCS

Printing date 11/26/2018

Reviewed on 05/11/2018

**Trade name: B50TF183-S4 / Rene 80 PSP Component**

(Contd. of page 6)

- **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:**

<b>Form:</b>	Solid
<b>Color:</b>	According to product specification
<b>Odor:</b>	Characteristic
<b>Odor threshold:</b>	Not determined.
- **pH-value:** Not applicable.
- **Change in condition**

<b>Melting point/Melting range:</b>	Undetermined.
<b>Flash point:</b>	Not applicable.
<b>Flammability (solid, gaseous):</b>	Not determined.

(Contd. on page 8)

## Safety Data Sheet

acc. to OSHA HCS

Printing date 11/26/2018

Reviewed on 05/11/2018

**Trade name: B50TF183-S4 / Rene 80 PSP Component**

(Contd. of page 7)

· <b>Decomposition temperature:</b>	Not determined.
· <b>Auto igniting:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard. Not determined.
· <b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
· <b>Vapor pressure at 994 °C (1,821.2 °F):</b>	0 hPa (0 mm Hg)
· <b>Density at 20 °C (68 °F):</b>	8.71692 g/cm <sup>3</sup> (72.7427 lbs/gal)
· <b>Relative density</b>	Not determined.
· <b>Vapor density</b>	Not applicable.
· <b>Evaporation rate</b>	Not applicable.
· <b>Solubility in / Miscibility with Water:</b>	Insoluble.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not applicable.
<b>Kinematic:</b>	Not applicable.
· <b>Solvent content:</b>	
<b>VOC content:</b>	0.00 % 0.0 g/l / 0.00 lb/gal
· <b>Other information</b>	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.

### 11 Toxicological information

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

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

**7440-48-4 cobalt**

Oral	LD50	6,170 mg/kg (rat)
------	------	-------------------

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.

(Contd. on page 9)

US



## Safety Data Sheet

acc. to OSHA HCS

Printing date 11/26/2018

Reviewed on 05/11/2018

**Trade name: B50TF183-S4 / Rene 80 PSP Component**

(Contd. of page 8)

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

7440-02-0	nickel	2B
7440-47-3	chromium	3
7440-48-4	cobalt	2B

- **NTP (National Toxicology Program)**

7440-02-0	nickel	R
7440-48-4	cobalt	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 2 (Self-assessment): hazardous for water*

*Do not allow product to reach ground water, water course or sewage system.*

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

- **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.*

- **Uncleaned packagings:**

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

US

(Contd. on page 10)

## Safety Data Sheet

acc. to OSHA HCS

Printing date 11/26/2018

Reviewed on 05/11/2018

**Trade name: B50TF183-S4 / Rene 80 PSP Component**

(Contd. of page 9)

### 14 Transport information

· <b>UN-Number</b>	
· <b>DOT, ADN, IMDG, IATA</b>	not regulated
· <b>UN proper shipping name</b>	
· <b>DOT, ADN, IMDG, IATA</b>	not regulated
· <b>Transport hazard class(es)</b>	
· <b>DOT, ADN, IMDG, IATA</b>	
· <b>Class</b>	not regulated
· <b>Packing group</b>	
· <b>DOT, IMDG, IATA</b>	not regulated
· <b>Environmental hazards:</b>	Not applicable.
· <b>Special precautions for user</b>	Not applicable.
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>UN "Model Regulation":</b>	not regulated

### 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):**

7440-02-0	nickel
7440-47-3	chromium
7440-48-4	cobalt
7439-96-5	manganese
7440-50-8	copper
7440-62-2	vanadium

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

7440-02-0	nickel
7440-47-3	chromium
7440-48-4	cobalt
7440-32-6	titanium
7439-98-7	molybdenum
7440-33-7	tungsten
7439-89-6	iron
7440-44-0	carbon
7439-96-5	manganese
7440-50-8	copper

(Contd. on page 11)

## Safety Data Sheet

acc. to OSHA HCS

Printing date 11/26/2018

Reviewed on 05/11/2018

**Trade name: B50TF183-S4 / Rene 80 PSP Component**

(Contd. of page 10)

7440-21-3	silicon
7440-25-7	tantalum
7440-03-1	niobium
7440-62-2	vanadium
7440-58-6	hafnium

· **TSCA new (21st Century Act) (Substances not listed)**

7429-90-5	aluminium powder (stabilised)
-----------	-------------------------------

· **Proposition 65**

· **Chemicals known to cause cancer:**

7440-02-0	nickel
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.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

7440-47-3	chromium	D
7439-96-5	manganese	D
7440-50-8	copper	D

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

7440-02-0	nickel	A5
7440-47-3	chromium	A4
7440-48-4	cobalt	A3
7439-98-7	molybdenum	A3
7440-67-7	zirconium	A4

· **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**



GHS08

· **Signal word** *Danger*

· **Hazard-determining components of labeling:**

nickel  
cobalt

· **Hazard statements**

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

(Contd. on page 12)

# Safety Data Sheet

## acc. to OSHA HCS

Printing date 11/26/2018

Reviewed on 05/11/2018

**Trade name: B50TF183-S4 / Rene 80 PSP Component**

(Contd. of page 11)

*May cause an allergic skin reaction.*

*Suspected of causing cancer.*

*Causes damage to organs through prolonged or repeated exposure.*

**· Precautionary statements**

*If medical advice is needed, have product container or label at hand.*

*Keep out of reach of children.*

*Read label before use.*

*Obtain special instructions before use.*

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

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

*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.*

*Wear protective gloves/protective clothing/eye protection/face protection.*

*[In case of inadequate ventilation] wear respiratory protection.*

*If on skin: Wash with plenty of water.*

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

*IF exposed or concerned: Get medical advice/attention.*

*Specific treatment (see on this label).*

*Get medical advice/attention if you feel unwell.*

*If skin irritation or rash occurs: Get medical advice/attention.*

*If experiencing respiratory symptoms: Call a poison center/doctor.*

*Wash contaminated clothing before reuse.*

*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** 11/26/2018 / 47

**· 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)*

*VOC: Volatile Organic Compounds (USA, EU)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

*NIOSH: National Institute for Occupational Safety*

*OSHA: Occupational Safety & Health*

*TLV: Threshold Limit Value*

*PEL: Permissible Exposure Limit*

*REL: Recommended Exposure Limit*

*BEI: Biological Exposure Limit*

(Contd. on page 13)

**Safety Data Sheet**  
**acc. to OSHA HCS**

Printing date 11/26/2018

Reviewed on 05/11/2018

**Trade name: B50TF183-S4 / Rene 80 PSP Component**

(Contd. of page 12)

*Resp. Sens. 1: Respiratory sensitisation – Category 1*

*Skin Sens. 1: Skin sensitisation – Category 1*

*Carc. 2: Carcinogenicity – Category 2*

*STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1*

**\* Data compared to the previous version altered.**

US