



Safety Data Sheet

acc. to OSHA HCS

Reviewed on 06/25/2015

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

- **Product identifier**
- **Product name:** CRU Part A
- **Product Code:** SA107
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Northern Surface Armor
8140 W 350 N
ANGOLA, IN 46703
USA
- **Information department:** Product safety department
- **Emergency telephone number:** During normal opening times: +1 (260) 665-8431

SECTION 2: HAZARDS IDENTIFICATION

- **Classification of the substance or mixture**



GHS02 Flame

Flam. Liq. 3 H226 Flammable liquid and vapor.



GHS08 Health hazard

Muta. 1B H340 May cause genetic defects.

Carc. 1B H350 May cause cancer.

STOT RE 2 H373 May cause damage to the hearing organs 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:**

Solvent naphtha (petroleum), light aroma.
ethylbenzene

- **Hazard statements**

Flammable liquid and vapor.

May cause genetic defects.

May cause cancer.

May cause damage to the hearing organs through prolonged or repeated exposure.

- **Precautionary statements**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Use explosion-proof electrical/ventilating/lighting/equipment.

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

(Contd. on page 2)

US



Safety Data Sheet

acc. to OSHA HCS

Reviewed on 06/25/2015

Trade name: CRU Part A

(Contd. of page 1)

- Wear protective gloves / eye protection / face protection.
- Ground/bond container and receiving equipment.
- Keep container tightly closed.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- IF exposed or concerned: Get medical advice/attention.
- Get medical advice/attention if you feel unwell.
- In case of fire: Use for extinction: CO₂, powder or water spray.
- Store locked up.
- Store in a well-ventilated place. Keep cool.
- Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system:



Health = 0
Fire = 2
Reactivity = 0

HMIS-ratings (scale 0 - 4)



Health = *0
Fire = 2
Reactivity = 0

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: COMPOSITION/INFORMATION INGREDIENTS

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

• Dangerous components:		
108-65-6	2-methoxy-1-methylethyl acetate	53.985%
1330-20-7	xylene	2.25%
64742-95-6	Solvent naphtha (petroleum), light arom.	1.97%
100-41-4	ethylbenzene	1.64%
108-38-3	m-xylene	1.26%
95-63-6	1,2,4-trimethylbenzene	0.22%

SECTION 4: FIRST AID MEASURES

- **Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately rinse with water.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.

(Contd. on page 3)

US



Safety Data Sheet

acc. to OSHA HCS

Reviewed on 06/25/2015

Trade name: CRU Part A

(Contd. of page 2)

- **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.

SECTION 5: FIRE-FIGHTING MEASURES

- **Extinguishing media**
- **Suitable extinguishing agents:** CO₂, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

SECTION 6: RELEASE MEASURES

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
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 contaminated material as waste according to item 13.
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents
- **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.

SECTION 7: HANDLING & STORAGE

- **Handling:**
- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
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.
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.

(Contd. on page 4)

US



Safety Data Sheet

acc. to OSHA HCS

Reviewed on 06/25/2015

Trade name: CRU Part A

(Contd. of page 3)

- **Specific end use(s)** No further relevant information available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- **A**
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:	
108-65-6 2-methoxy-1-methylethylacetate	
WEEL	Long-term value: 50 ppm
1330-20-7 xylene	
PEL	Long-term value: 435 mg/m ³ , 100 ppm
REL	Short-term value: 655 mg/m ³ , 150 ppm Long-term value: 435 mg/m ³ , 100 ppm
TLV	Short-term value: 651 mg/m ³ , 150 ppm Long-term value: 434 mg/m ³ , 100 ppm BEI
100-41-4 ethylbenzene	
PEL	Long-term value: 435 mg/m ³ , 100 ppm
REL	Short-term value: 545 mg/m ³ , 125 ppm Long-term value: 435 mg/m ³ , 100 ppm
TLV	Long-term value: 87 mg/m ³ , 20 ppm BEI
108-38-3 m-xylene	
PEL	Long-term value: 435 mg/m ³ , 100 ppm
REL	Short-term value: 655 mg/m ³ , 150 ppm Long-term value: 435 mg/m ³ , 100 ppm
TLV	Short-term value: 651 mg/m ³ , 150 ppm Long-term value: 434 mg/m ³ , 100 ppm BEI
· Ingredients with biological limit values:	
1330-20-7 xylene	
BEI	1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids
100-41-4 ethylbenzene	
BEI	0.7 g/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)
	- Medium: end-exhaled air Time: not critical Parameter: Ethyl benzene (semi-quantitative)

(Contd. on page 5)

US



Safety Data Sheet

acc. to OSHA HCS

Reviewed on 06/25/2015

Trade name: CRU Part A

(Contd. of page 4)

108-38-3 m-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:**
- **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 cannot 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:**



Tightly sealed goggles

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
 - Form: Liquid
 - Color: Various colors
- **Odor:** Solvent-like
- **Odor threshold:** Not determined.

(Contd. on page 6)

US



Safety Data Sheet

acc. to OSHA HCS

Reviewed on 06/25/2015

Trade name: CRU Part A

(Contd. of page)

· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	146 °C (295 °F)
· Flash point:	44 °C (111 °F)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	315 °C (599 °F)
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not self-igniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Explosion limits:	
Lower:	1.5 Vol %
Upper:	10.8 Vol %
· Vapor pressure at 20 °C (68 °F):	3.4 hPa (3 mm Hg)
· Density at 20 °C (68 °F):	1.02 g/cm ³ (8.512 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with Water:	Miscible
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	63.2 %
VOC content:	63.2 %
	644.9 g/l / 5.38 lb/gl
Solids content:	36.8 %
· Other information	No further relevant information available.

SECTION 10: STABILITY AND REACTIVITY

- **Reactivity**
- **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.

US

(Contd. on page 7)



Safety Data Sheet

acc. to OSHA HCS

Reviewed on 06/25/2015

Trade name: CRU Part A

(Contd. of page 6)

SECTION 11: TOXICOLOGICAL INFORMATION

- **Information on toxicological effects**

- **Acute toxicity:**

· LD/LC50 values that are relevant for classification:		
64742-95-6 Solvent naphtha (petroleum), light aroma.		
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:** No irritant effect.

- **on the eye:** No irritating effect.

- **Sensitization:** No sensitizing effects known.

- **Additional toxicological information:**

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

Carcinogenic.

The product can cause inheritable damage.

- **Carcinogenic categories**

· IARC (International Agency for Research on Cancer)		
1330-20-7	xylene	3
100-41-4	ethylbenzene	2B
108-38-3	m-xylene	3
106-42-3	p-xylene	3
95-47-6	o-xylene	3
111-76-2	2-butoxyethanol	3
98-82-8	cumene	2B
108-88-3	toluene	3
· NTP (National Toxicology Program)		
98-82-8	cumene	R
· OSHA-Ca (Occupational Safety & Health Administration)		
None of the ingredients is listed.		

SECTION 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.

(Contd. on page 8)

US



Safety Data Sheet

acc. to OSHA HCS

Reviewed on 06/25/2015

Trade name: CRU Part A



(Contd. of page 7)

- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

SECTION 13: WASTE DISPOSAL

- **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.

SECTION 14: TRANSPORT INFORMATION

<ul style="list-style-type: none"> · UN-Number · DOT, IMDG, IATA 	UN1263
<ul style="list-style-type: none"> · UN proper shipping name · DOT · IMDG, IATA 	Paint PAINT
<ul style="list-style-type: none"> · Transport hazard class(es) · DOT 	3 Flammable liquids
<ul style="list-style-type: none"> · Class · Label 	3 3
<ul style="list-style-type: none"> · IMDG, IATA 	3 Flammable liquids
<ul style="list-style-type: none"> · Class · Label 	3 3
<ul style="list-style-type: none"> · Packing group · DOT, IMDG, IATA 	III
<ul style="list-style-type: none"> · Environmental hazards: · Marine pollutant: 	No
<ul style="list-style-type: none"> · Special precautions for user · Danger code (Kemler): · EMS Number: 	Warning: Flammable liquids 30 F-E, S-E
<ul style="list-style-type: none"> · Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code 	Not applicable.

(Contd. on page

US



Safety Data Sheet

acc. to OSHA HCS

Reviewed on 06/25/2015

Trade name: CRU Part A

(Contd. of page

<ul style="list-style-type: none"> · Transport/Additional information: · DOT · Quantity limitations <table style="margin-left: 20px; border: none;"> <tr> <td>On passenger aircraft/rail: 60 L</td> </tr> <tr> <td>On cargo aircraft only: 220 L</td> </tr> </table> 		On passenger aircraft/rail: 60 L	On cargo aircraft only: 220 L		
On passenger aircraft/rail: 60 L					
On cargo aircraft only: 220 L					
<ul style="list-style-type: none"> · IMDG · Limited quantities (LQ) <table style="margin-left: 20px; border: none;"> <tr> <td>5L</td> </tr> </table> · Excepted quantities (EQ) <table style="margin-left: 20px; border: none;"> <tr> <td>Code: E1</td> </tr> <tr> <td>Maximum net quantity per inner packaging: 30 ml</td> </tr> <tr> <td>Maximum net quantity per outer packaging: 1000 ml</td> </tr> </table> 		5L	Code: E1	Maximum net quantity per inner packaging: 30 ml	Maximum net quantity per outer packaging: 1000 ml
5L					
Code: E1					
Maximum net quantity per inner packaging: 30 ml					
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<ul style="list-style-type: none"> · UN "Model Regulation": <table style="margin-left: 20px; border: none;"> <tr> <td>UN1263, Paint, 3, III</td> </tr> </table> 		UN1263, Paint, 3, III			
UN1263, Paint, 3, III					

SECTION 15: REGULATORY INFORMATION

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

<ul style="list-style-type: none"> · Section 355 (extremely hazardous substances): <table style="margin-left: 20px; border: none;"> <tr> <td>None of the ingredients is listed.</td> </tr> </table> · Section 313 (Specific toxic chemical listings): <table style="margin-left: 20px; border: none;"> <tr> <td>1330-20-7</td> <td>xylene</td> </tr> <tr> <td>100-41-4</td> <td>ethylbenzene</td> </tr> <tr> <td>108-38-3</td> <td>m-xylene</td> </tr> <tr> <td>106-42-3</td> <td>p-xylene</td> </tr> <tr> <td>95-47-6</td> <td>o-xylene</td> </tr> <tr> <td>95-63-6</td> <td>1,2,4-trimethylbenzene</td> </tr> <tr> <td>111-76-2</td> <td>2-butoxyethanol</td> </tr> <tr> <td>98-82-8</td> <td>cumene</td> </tr> <tr> <td>108-88-3</td> <td>toluene</td> </tr> </table> · TSCA (Toxic Substances Control Act): <table style="margin-left: 20px; border: none;"> <tr> <td>All ingredients are listed.</td> </tr> </table> · Proposition 65 <table style="margin-left: 20px; border: none;"> <tr> <td colspan="2"> <ul style="list-style-type: none"> · Chemicals known to cause cancer: <table style="margin-left: 20px; border: none;"> <tr> <td>100-41-4</td> <td>ethylbenzene</td> </tr> <tr> <td>98-82-8</td> <td>cumene</td> </tr> </table> · Chemicals known to cause reproductive toxicity for females: <table style="margin-left: 20px; border: none;"> <tr> <td>108-88-3</td> <td>toluene</td> </tr> </table> · Chemicals known to cause reproductive toxicity for males: <table style="margin-left: 20px; border: none;"> <tr> <td colspan="2">None of the ingredients is listed.</td> </tr> </table> · Chemicals known to cause developmental toxicity: <table style="margin-left: 20px; border: none;"> <tr> <td>108-88-3</td> <td>toluene</td> </tr> </table> </td> </tr> </table> · Carcinogenic categories <table style="margin-left: 20px; border: none;"> <tr> <td colspan="2"> <ul style="list-style-type: none"> · EPA (Environmental Protection Agency) <table style="margin-left: 20px; border: none;"> <tr> <td>1330-20-7</td> <td>xylene</td> <td style="text-align: center;">I</td> </tr> <tr> <td>100-41-4</td> <td>ethylbenzene</td> <td style="text-align: center;">D</td> </tr> </table> </td> </tr> </table> 		None of the ingredients is listed.	1330-20-7	xylene	100-41-4	ethylbenzene	108-38-3	m-xylene	106-42-3	p-xylene	95-47-6	o-xylene	95-63-6	1,2,4-trimethylbenzene	111-76-2	2-butoxyethanol	98-82-8	cumene	108-88-3	toluene	All ingredients are listed.	<ul style="list-style-type: none"> · Chemicals known to cause cancer: <table style="margin-left: 20px; border: none;"> <tr> <td>100-41-4</td> <td>ethylbenzene</td> </tr> <tr> <td>98-82-8</td> <td>cumene</td> </tr> </table> · Chemicals known to cause reproductive toxicity for females: <table style="margin-left: 20px; border: none;"> <tr> <td>108-88-3</td> <td>toluene</td> </tr> </table> · Chemicals known to cause reproductive toxicity for males: <table style="margin-left: 20px; border: none;"> <tr> <td colspan="2">None of the ingredients is listed.</td> </tr> </table> · Chemicals known to cause developmental toxicity: <table style="margin-left: 20px; border: none;"> <tr> <td>108-88-3</td> <td>toluene</td> </tr> </table> 		100-41-4	ethylbenzene	98-82-8	cumene	108-88-3	toluene	None of the ingredients is listed.		108-88-3	toluene	<ul style="list-style-type: none"> · EPA (Environmental Protection Agency) <table style="margin-left: 20px; border: none;"> <tr> <td>1330-20-7</td> <td>xylene</td> <td style="text-align: center;">I</td> </tr> <tr> <td>100-41-4</td> <td>ethylbenzene</td> <td style="text-align: center;">D</td> </tr> </table> 		1330-20-7	xylene	I	100-41-4	ethylbenzene	D
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(Contd. on page 10)

US



Safety Data Sheet

acc. to OSHA HCS

Reviewed on 06/25/2015

Trade name: CRU Part A

(Contd. of page 9)

108-38-3	<i>m</i> -xylene	I
106-42-3	<i>p</i> -xylene	I
95-47-6	<i>o</i> -xylene	I
111-76-2	2-butoxyethanol	NL
98-82-8	cumene	D, CBD
108-88-3	toluene	II
· TLV (Threshold Limit Value established by ACGIH)		
1330-20-7	xylene	A4
100-41-4	ethylbenzene	A3
108-38-3	<i>m</i> -xylene	A4
106-42-3	<i>p</i> -xylene	A4
95-47-6	<i>o</i> -xylene	A4
111-76-2	2-butoxyethanol	A3
108-88-3	toluene	A4
· NIOSH-Ca (National Institute for Occupational Safety and Health)		
None of the ingredients is listed.		

· **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:**Solvent naphtha (petroleum), light arom.
ethylbenzene· **Hazard statements**

Flammable liquid and vapor.

May cause genetic defects.

May cause cancer.

May cause damage to the hearing organs through prolonged or repeated exposure.

· **Precautionary statements**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Use explosion-proof electrical/ventilating/lighting/equipment.

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

Wear protective gloves / eye protection / face protection.

Ground/bond container and receiving equipment.

Keep container tightly closed.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Obtain special instructions before use.

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

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF exposed or concerned: Get medical advice/attention.

Get medical advice/attention if you feel unwell.

In case of fire: Use for extinction: CO₂, powder or water spray.

(Contd. on page 11)

US



Safety Data Sheet

acc. to OSHA HCS

Reviewed on 06/25/2015

Trade name: CRU Part A

(Contd. of page 10)

Store locked up.

Store in a well-ventilated place. Keep cool.

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

- **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.

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

SECTION 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.

- **Contact:** Mr. Williams

- **Date of preparation / last revision** 06/25/2015 / -

- **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

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

Muta. 1B: Germ cell mutagenicity, Hazard Category 1B

Carc. 1B: Carcinogenicity, Hazard Category 1B

STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

US