



Reviewed on 06/21/2017

1 Identification

- · Product identifier
- · Trade name: HRC06-LV Compliant Hot Rod Catalyst
- Article number: HRC06-LV
- · Application of the substance / the mixture Coating
- \cdot Details of the supplier of the safety data sheet
- Manufacturer/Supplier: SEM Products Inc. 1685 Overview Drive Rock Hill, SC 29730 803 207 8225

· Information department:

cust_care@semproducts.com : SEM Products,Inc. 1685 Overview Dr. Rock Hill, SC 29730 : phone 1-800-831-1122, M - TH 7am - 4pm EDT

• Emergency telephone number: CHEMTREC 1-800-424-9300

2 Hazard(s) identification

· Classification of the substance or mixture

GHS02 Flame

Flam. Liq. 3 H226 Flammable liquid and vapor.

GHS08 Health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.*STOT SE* 2 H371 May cause damage to organs.

GHS07

- Skin Irrit. 2 H315 Causes skin irritation.
- Eye Irrit. 2A H319 Causes serious eye irritation.
- Skin Sens. 1 H317 May cause an allergic skin reaction.
- STOT SE 3 H335 May cause respiratory irritation.

· Label elements

• *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: HDI Prepolymer

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Hazard statemen	alpha,alpha-trifluorotoluene
	us e liquid and vapor.
H315 Causes ski	
	rious eye irritation.
	e allergy or asthma symptoms or breathing difficulties if inhaled.
	e an allergic skin reaction.
	e damage to organs.
	e respiratory irritation.
Precautionary st	
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing must not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P284	[In case of inadequate ventilation] wear respiratory protection.
P303+P361+P3	53 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with wat
	shower.
P304+P341	If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable j
	breathing.
P305+P351+P3	38 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if prese
	and easy to do. Continue rinsing.
P308+P311	IF exposed or concerned: Call a poison center/doctor.
P362+P364	Take off contaminated clothing and wash it before reuse.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P321	Specific treatment (see on this label).
P337+P313	If eye irritation persists: Get medical advice/attention.
P342+P311	If experiencing respiratory symptoms: Call a poison center/doctor.
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use for extinction: CO2, powder or water spray.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/internation regulations.
Classification sy	
NFPA ratings (s	
▲ · ·	
	ealth = 2 $re = 2$
	re = 2 eactivity = 0

· HMIS-ratings (scale 0 - 4)

HEALTH*2Health = *2FIRE2Fire = 2REACTIVITY0Reactivity = 0

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

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- Description:
- Mixture: consisting of the following components.
- Weight percentages

· Dangerous components:

- 98-56-6 4-chloro-alpha,alpha,alpha-trifluorotoluene
- 28182-81-2 HDI Prepolymer

4 First-aid measures

- · Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- 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. If symptoms persist, consult a doctor.
- · 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:
- *CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.* • *For safety reasons unsuitable extinguishing agents:* Water with full jet
- · 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.
- Wear protective equipment. Keep unprotected persons away.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.

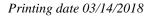
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60-70%

30-40%



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 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. 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 	(Contd. of page 3)
· PAC-1:	
28182-81-2 HDI Prepolymer	$7.8 mg/m^3$
· PAC-2:	
28182-81-2 HDI Prepolymer	86 mg/m ³
· PAC-3:	
28182-81-2 HDI Prepolymer	510 mg/m ³

7 Handling and storage

· Handling:

- **Precautions for safe handling** No special measures required. Ensure good ventilation/exhaustion at the workplace. 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.
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

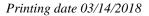
- Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- 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.

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Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

· 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:

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



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. 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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

Information on basic physical and chemical properties General Information

. Annoaranco

· Appearance:	
Form:	Liquid
Color:	According to product specification
· Odor:	Characteristic
• Odor threshold:	Not determined.
· pH-value:	Not determined.
• Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. 139 °C
· Flash point:	47 °C
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	370 °C
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
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• Danger of explosion:	In use, may form flammable/explosive vapour-air mixture.
· Explosion limits:	
<i>Lower:</i>	1.2 Vol %
Upper:	7.5 Vol %
· Vapor pressure at 20 °C:	10.7 hPa
· Density at 20 °C:	1.25419 g/cm ³
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/wa	uter): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	61.0 %
VOC content:	0.00 %
	0.0 g/l / 0.00 lb/gl
Solids content:	39.0 %
• Other information	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:

28182-81-2 HDI Prepolymer

Oral	LD50	1,000 mg/kg (rat)
Dermal		5,000 mg/kg (rabbit)
Inhalative	LC50/4 h	137-1,150 mg/l (rat)

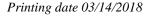
· Primary irritant effect:

• on the skin: Irritant to skin and mucous membranes.

• on the eye: Irritating effect.

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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)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· 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.

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.

14 Transport information		
· UN-Number		
·DOT	NA1993	
· ADR, IMDG, IATA	UN1993	



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UN proper shipping name DOT	COMBUSTIBLE LIQUID, N.O.S (Chlorobenzotrifluorides)
ADR	1993 Flammable liquids, n.o.s. (Chlorobenzotrifluorides)
IMDG, IATA	$F \ L \ A \ M \ M \ A \ B \ L \ E \ L \ I \ Q \ U \ I \ D \ , \qquad N \ . \ O \ . \ (CHLOROBENZOTRIFLUORIDES)$
Transport hazard class(es)	
DOT	
Class	3 Combustible liquids
Label	3
ADR, IATA	
Class	3 Flammable liquids
Label	3
IMDG	
Class Label	3 Flammable liquids 3
	-
Packing group DOT, ADR, IMDG, IATA	III
Environmental hazards:	Product contains environmentally hazardous substances: H
	Prepolymer
Marine pollutant:	Yes Symbol (fish and tree)
Special precautions for user	Warning: Flammable liquids
EMS Number:	F-E,S-E
Segregation groups	Liquid halogenated hydrocarbons
Stowage Category	Α
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 60 L
	On cargo aircraft only: 220 L
	(Contd. on pag



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· ADR	
\cdot Excepted quantities (EQ)	Code: El
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· IMDG	
· Limited quantities (LQ)	5L
\cdot Excepted quantities (EQ)	Code: El
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUIDS, N.O.S (CHLOROBENZOTRIFLUORIDES), 3, III

15 Regulatory information

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

· Section 355 (extremely hazardous substances):

None of the ingredient is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· 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.

· Cancerogenity categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· 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). (Contd. on page 10)

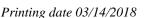
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Hazard pictogra	(Contd. of pa
<	
GHS02 GHS	508 GHS07
Signal word Da	inger
Hazard-determ HDI Prepolyme	ining components of labeling: r
	alpha,alpha-trifluorotoluene
Hazard stateme	
H226 Flammab	le liquid and vapor.
H315 Causes sk	in irritation.
H319 Causes se	rious eye irritation.
H334 May caus	e allergy or asthma symptoms or breathing difficulties if inhaled.
	e an allergic skin reaction.
H371 May caus	e damage to organs.
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Precautionary s	statements
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· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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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: Rita Joiner (rjoiner@semproducts.com)*
- · Date of preparation / last revision 03/14/2018 / 7

· 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) 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 Flam. Liq. 3: Flammable liquids – Category 3 Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A Resp. Sens. 1: Respiratory sensitisation - Category 1 Skin Sens. 1: Skin sensitisation - Category 1 STOT SE 2: Specific target organ toxicity (single exposure) – Category 2 • * Data compared to the previous version altered.