Printing date 02/23/2016



Reviewed on 01/08/2016

1 Identification

- · Product identifier
- · Trade name: 50554,50556 EZ Finish Activator Fast
- · Article number: 50554, 50556
- Application of the substance / the mixture Coating Isocyanate Hardener
- 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



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

Acute Tox. 4 H302 Harmful if swallowed.
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 H336 May cause drowsiness or dizziness.

· Label elements

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



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Safety Data Sheet acc. to OSHA HCS



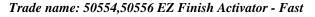
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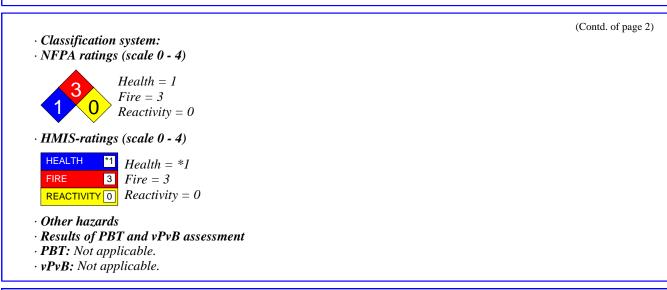
Trade name: 50554,50556 EZ Finish Activator - Fast

Signal word Da	(Contd. of page
	ining components of labeling:
HDI Prepolyme	
heptan-2-one	, ,
<i>n-butyl acetate</i>	
Hazard stateme	nts
	le liquid and vapor.
H302 Harmful i	
H315 Causes sk	
	rious eye irritation.
	e allergy or asthma symptoms or breathing difficulties if inhaled.
	e an allergic skin reaction.
	e damage to organs.
	e drowsiness or dizziness.
Precautionary s	
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P284	[In case of inadequate ventilation] wear respiratory protection.
P280	Wear protective gloves / eye protection / face protection.
P240	Ground/bond container and receiving equipment.
P233	Keep container tightly closed.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
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.
	353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with wate
$1505\pm1501\pm1$	shower.
D205 D251 D	shower. 338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if prese
1 303+1 331+1.	and easy to do. Continue rinsing.
P321	Specific treatment (see on this label).
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P363	Wash contaminated clothing before reuse.
P304+P341	If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for
1 507 1 571	breathing.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P330	Rinse mouth.
P370+P378	In case of fire: Use for extinction: CO2, powder or water spray.
P308+P311	IF exposed or concerned: Call a POISON CENTER/doctor.
P362+P364	Take off contaminated clothing and wash it before reuse.
P405	Store locked up.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container in accordance with local/regional/national/internation
1 501	regulations.
	(Contd. on page

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3 Composition/information on ingredients

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

· Dangerous components:		
28182-81-2	HDI Prepolymer	40 - 60%
123-86-4	n-butyl acetate	30 - 40%
110-43-0	heptan-2-one	13 - 30%

4 First-aid measures

- · Description of first aid measures
- General information:
- Immediately remove any clothing soiled by the product.

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.

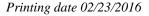
- In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- After swallowing: Immediately call a 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.

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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
- \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.
- Wear protective equipment. Keep unprotected persons away.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- \cdot 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.

7 Handling and storage

· Handling:

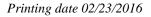
- *Precautions for safe handling* No special measures required. Ensure good ventilation/exhaustion at the workplace.
- Prevent formation of aerosols.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory 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.

(Contd. on page 5)

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· Control parameters

· Components with limit values that require monitoring at the workplace:

123-86-4 n-butyl acetate

PEL Long-term value: 710 mg/m³, 150 ppm

REL Short-term value: 950 mg/m³, 200 ppm Long-term value: 710 mg/m³, 150 ppm

TLV Short-term value: (950) NIC-712 mg/m³, (200) NIC-150 ppm Long-term value: (713) NIC-238 mg/m³, (150) NIC-50 ppm

110-43-0 heptan-2-one

PEL Long-term value: 465 mg/m³, 100 ppm

REL Long-term value: 465 mg/m³, 100 ppm

TLV Long-term value: 233 mg/m³, 50 ppm

• 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. 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

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· Information on basic physical and chemical properties			
General Information			
• Appearance:			
Form:	Liquid		
Color: • Odor:	According to product specification Characteristic		
• Odor: • Odor threshold:	Not determined.		
pH-value:	Not determined.		
-	Not determined.		
Change in condition Melting point/Melting range:	Undetermined.		
Boiling point/Boiling range:	124 °C		
Flash point:	27 °C		
Flammability (solid, gaseous):	Not applicable.		
Ignition temperature:	370 °C		
Decomposition temperature:	Not determined.		
Auto igniting:	Product is not selfigniting.		
Danger of explosion:	In use, may form flammable/explosive vapour-air mixture.		
Explosion limits:			
Lower:	1.0 Vol %		
Upper:	7.5 Vol %		
Vapor pressure at 20 °C:	10.7 hPa		
Density at 20 °C:	$0.97629 \ g/cm^3$		
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/wat	er): Not determined.		
Viscosity:			
Dynamic:	Not determined.		
Kinematic:	Not determined.		
Solvent content:			
Organic solvents:	50.8 %		
VOC content:	50.8 %		
	495.5 g/l / 4.14 lb/gl		
Solids content:	49.2 %		
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.
- \cdot Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- $\cdot \textit{Incompatible materials: } No \ further \ relevant \ information \ available.$
- $\cdot \textit{Hazardous decomposition products:} No \ dangerous \ decomposition \ products \ known.$

11 Toxicological information

· Information on toxicological effects

• Acute toxicity:

LC50 values that are relevant for cla	ssification:
---------------------------------------	--------------

28182-81-2 HDI Prepolymer				
Oral	LD50	1000 mg/kg (rat)		
Dermal	LD50	5000 mg/kg (rabbit)		

Inhalative LC50/4 h 137-1150 mg/l (rat)

110-43-0 heptan-2-one

OralLD501670 mg/kg (rat)DermalLD5012600 mg/kg (rabbit)

· Primary irritant effect:

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

- on the eye: 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 (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.

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- · 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.

UN-Number DOT, ADR, IMDG, IATA	UN1993
UN proper shipping name	
DOT	Flammable liquids, n.o.s. (n-butyl acetate, n-Amyl methyl ketone)
ADR	1993 Flammable liquids, n.o.s. (n-butyl acetate, n-Amyl methy ketone), special provision 640E
IMDG	FLAMMABLE LIQUID, N.O.S. (n-butyl acetate, n-AMYL METHY. KETONE, HDI Prepolymer)
IATA	Flammable liquid, n.o.s. (n-butyl acetate, n-Amyl methyl ketone)
DOT	
R MANAR F LOOD	2 Elsana able lisuida
DOT Class Label	3 Flammable liquids 3
Class	3 Flammable liquids 3



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Label	3
IATA	
Class	3 Flammable liquids
Label	3
Packing group	
DOT, ADR, IMDG, IATA	III
Environmental hazards:	Product contains environmentally hazardous substances: H
Marine pollutant:	Prepolymer Yes
	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
Special precautions for user	Warning: Flammable liquids
EMS Number:	<i>F-E</i> , <u><i>S-E</i></u>
Stowage Category	A
Transport in bulk according to Annex . MARPOL73/78 and the IBC Code	
	Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L
ADR	
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
Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per inner packaging: 50 mi Maximum net quantity per outer packaging: 1000 ml
UN ''Model Regulation'':	UN 1993 FLAMMABLE LIQUIDS, N.O.S., SPECIAL PROVISIO
011 Mouel Reguillon .	640E (N-BUTYL ACETATE, N-AMYL METHYL KETONE), 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.

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	Substances Control Act):	
All ingrement	s are listed.	
Proposition 6.		
-	own to cause cancer:	
	gredients is listed.	
	·	
	own to cause reproductive toxicity for females:	
	gredients is listed.	
	own to cause reproductive toxicity for males:	
None of the in	gredients is listed.	
Chemicals kn	own to cause developmental toxicity:	
None of the in	gredients is listed.	
Cancerogenit	y categories	
EPA (Enviror	nmental Protection Agency)	
None of the in	gredients is listed.	
TLV (Thresho	old Limit Value established by ACGIH)	
	yltin dilaurate	E
	Vational Institute for Occupational Safety and Health)	
	gredients is listed.	
	HS07 GHS08	
GHS02 GI	1507 GHS08	
GHS02 GI Signal word L Hazard-detern	AS07 GHS08 Danger nining components of labeling:	
GHS02 GI Signal word I Hazard-detern HDI Prepolyn	AS07 GHS08 Danger nining components of labeling:	
Signal word L Hazard-detern HDI Prepolyn heptan-2-one	Danger nining components of labeling: ner	
GHS02 GI Signal word L Hazard-detern HDI Prepolyn heptan-2-one n-butyl acetato	e	
GHS02 GI Signal word I Hazard-detern HDI Prepolyn heptan-2-one n-butyl acetate Hazard staten	e	
GHS02 GI Signal word L Hazard-detern HDI Prepolyn heptan-2-one n-butyl acetate Hazard staten H226 Flamma H302 Harmfu	CHS07 GHS08 Canger mining components of labeling: ner ser sets the liquid and vapor. lif swallowed.	
GHS02 GI Signal word L Hazard-detern HDI Prepolyn heptan-2-one n-butyl acetate Hazard staten H226 Flamma H302 Harmfu H315 Causes	Conger mining components of labeling: ter ter ter ter ter ter ter ter	
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P233	Keep container tightly closed.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
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.
P303+P361+P35	3 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/
	shower.
P305+P351+P33	8 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present
	and easy to do. Continue rinsing.
P321	Specific treatment (see on this label).
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P363	Wash contaminated clothing before reuse.
P304+P341	If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for
	breathing.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P330	Rinse mouth.
P370+P378	In case of fire: Use for extinction: CO2, powder or water spray.
P308+P311	IF exposed or concerned: Call a POISON CENTER/doctor.
P362+P364	Take off contaminated clothing and wash it before reuse.
P405	Store locked up.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	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.

- *Contact:* Steve Gaver (sgaver@semproducts.com)
- · Date of preparation / last revision $\frac{02}{23}/2016 / 5$
- · 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) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

- ICAO: International Civil Aviation Organisation
- ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

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

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PBT: Persistent, Bioaccumulative and Toxic

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vPvB: very Persistent and very Bioaccumulative	(Contd. of page 11)
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, Hazard Category 3	
Acute Tox. 4: Acute toxicity, Hazard Category 4	
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2	
Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A	
Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1	
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1	
STOT SE 2: Specific target organ toxicity - Single exposure, Hazard Category 2	
• * Data compared to the previous version altered.	