



GHS SAFETY DATA SHEET

SCIGRIP® 58 VOC-free 2-Component Adhesive

Date Revised: DEC 2014

Supersedes: JUN 2014

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SCIGRIP® 58 VOC-free 2-Component Adhesive (Refer to Technical Data Sheet for Mix ratio)

PRODUCT USE: 2-Component, fast-setting, reactive, urethane-based adhesive

SUPPLIER: SCIGRIP Adhesives Ltd

Unit 22, Bentall Business Park, Glover Rd
Washington, Tyne&Wear, NE37 3JD, UK
Tel +44 191 419 6444

MANUFACTURER: IPS Corporation

600 Ellis Road, Durham, NC 27703 - USA
P.O. Box 12729, Research Triangle Park, NC 27709 - USA
Tel. 1-919-598-2400

EMERGENCY: Transportation: CHEMTEL Tel. 800-255-3924, +1 813-248-0585 (International)

Medical: CHEMTEL Tel. 800-255-3924, +1 813-248-0585 (International)

SECTION 2 - HAZARDS IDENTIFICATION

GHS CLASSIFICATION:

Health	Environmental	Physical
Acute Toxicity: None	Acute Toxicity: None Known	None Known
Skin Irritation: Category 2	Chronic Toxicity: None Known	
Skin Sensitization: Category 1		
Eye: Category 2		

GHS LABEL:



Signal Word:

Warning

WHMIS CLASSIFICATION:

CONTROLLED PRODUCT CLASS D, DIVISION 1A
CLASS D, DIVISION 2B

Hazard Statements		Precautionary Statements	
H315 - Causes skin irritation	H320 - Causes eye irritation	P233 - Keep container tightly closed	P271 - Use only outdoors or in a well-ventilated area
H317 - May cause an allergic skin reaction	H335 - May cause respiratory irritation	P260 - Do not breathe vapor	

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS#	EINECS #	REACH Pre-registration Number	CONCENTRATION % by Weight
Component "A" (Initiator/Catalyst) Homopolymer of HDI	28182-81-2	500-060-2	Under development	86 - 99

Component "B" (Base Resin)

No hazardous ingredients

All of the constituents of this adhesive product are listed on the TSCA inventory of chemical substances maintained by the US EPA, or are exempt from that listing.

*This chemical is subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40CFR372).

indicates that this chemical is found on Proposition 65's List of chemicals known to the State of California to cause cancer or reproductive toxicity.

SECTION 4 - FIRST AID MEASURES

Contact with eyes:	Flush eyes immediately with plenty of water for 15 minutes. If irritation develops, seek medical advice.
Skin contact:	Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water. If irritation develops, seek medical advice.
Inhalation:	Remove to fresh air. If breathing is stopped, give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice.
Ingestion:	Rinse mouth with water. Give 1 or 2 glasses of water or milk to dilute. Do not induce vomiting. Seek medical advice immediately.

SECTION 5 - FIREFIGHTING MEASURES

Suitable Extinguishing Media:	Dry powder, water spray, carbon dioxide, foam or dry chemical	HMIS	NFPA	0-Minimal
Unsuitable Extinguishing Media:	None known	Health	2	2
Exposure Hazards:	Inhalation and skin contact	Flammability	1	1
Combustion Products:	Oxides of carbon and nitrogen, hydrogen cyanide, HDI	Reactivity	1	1
Protection for Firefighters:	Self-contained breathing apparatus or full-face positive pressure air-supply masks			3-Serious
				4-Severe

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions:	Provide sufficient ventilation, or wear suitable respiratory protective equipment. Prevent contact with skin or eyes (see section 8).
Environmental Precautions:	Prevent product or liquids contaminated with product from entering sewers, drains, soil or open water course.
Methods for Cleaning up:	Clean up with dry absorbent material. Shovel to a suitable unsealed container, transport to ventilated area, treat with neutralizing solution.

SECTION 7 - HANDLING AND STORAGE

Handling:	Avoid breathing of vapor, avoid contact with eyes, skin and clothing. Do not eat, drink or smoke while handling.
Storage:	Store between 50° - 80°F (10° - 27°C) in well-ventilated area. Keep container tightly closed when not in use. Follow all precautionary information on container label and product bulletins.

SECTION 8 - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

EXPOSURE LIMITS:	Component	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
	Homopolymer of HDI	Not Est.	Not Est.	Not Est.	Not Est.

Engineering Controls: Use local exhaust as needed.

Monitoring: Maintain breathing zone airborne concentrations below exposure limits.

Personal Protective Equipment (PPE):

Eye Protection: Avoid contact with eyes, wear splashproof chemical goggles or 8" face shield. Contact lenses should not be worn.

Skin Protection: Prevent contact with the skin as much as possible. Chemical resistant gloves should be used for frequent immersion.

Use of latex/nitrile surgical gloves or solvent-resistant barrier cream should provide adequate protection when normal adhesive application practices and procedures are used for making structural bonds.

Respiratory Protection: Use in a well-ventilated room. Use local exhaust ventilation to remove airborne contaminants from employee breathing zone.



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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	"A" Clear, pale, yellow syrupy liquid, "B" Clear, syrupy liquid	Evaporation Rate:	"A" N/A, "B" slower than Ether
Odor:	"A" Slight, "B" None	Flammability:	None Known
pH:	Not Applicable	Flammability Limits:	LEL: Not Established UEL: Not Established
Boiling Point:	Decomposes	Vapor Pressure:	Not Established
Flash Point:	158°C (316°F) (Homopolymer of HDI)	Vapor Density:	Not Established
Specific Gravity:	"A" 1.166, "B" 1.123 @23°C (73°F)	VOC Content :	0.2%
Solubility:	Not Soluble in Water		
Auto-ignition Temperature:	460°C (860°F) (Homopolymer of HDI)		

SECTION 10 - STABILITY AND REACTIVITY

Stability:	Stable
Hazardous decomposition products:	None in normal use. By fire: Oxides of carbon and nitrogen, hydrogen cyanide and HDI.
Conditions to avoid:	Keep away from direct sunlight, heat, sparks, open flame and other ignition sources.
Incompatible Materials:	Water, amines, strong bases, alcohols, metal compounds, surface active materials.

SECTION 11 - TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Inhalation, Eye and Skin Contact

Acute symptoms and effects:

Inhalation:	May cause irritation of nose, throat and lungs
Eye Contact:	May cause eye irritation
Skin Contact:	May cause skin irritation
Ingestion:	May cause burning of gastro-intestinal tract.

Chronic (long-term) effects: None known to humans

Toxicity:	LD50	LC50	Target Organs
Homopolymer of HDI	Oral: 10000 mg/kg (rat), Dermal: 5000 mg/kg (rabbit)	Inhalation: 4 hrs. 390-453 mg/m ³ (rat)	None Known

<u>Reproductive Effects</u>	<u>Teratogenicity</u>	<u>Mutagenicity</u>	<u>Embryotoxicity</u>	<u>Sensitization to Product</u>	<u>Synergistic Products</u>
Not Established	Not Established	Not Established	Not Established	Not Established	Not Established

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:	None Known
Mobility:	Not Established
Degradability:	Not Established
Bioaccumulation:	Not Established

SECTION 13 - WASTE DISPOSAL CONSIDERATIONS

Follow local and national regulations. Consult local disposal expert.

SECTION 14 - TRANSPORT INFORMATION

Proper Shipping Name:	Environmentally hazardous substance, liquid, n.o.s (contains Hexamethylene-1,6-Diisocyanate)
Hazard Class:	9
Secondary Risk	None
Identification Number:	UN 3082
Packing Group:	III
Label Required:	Class 9
Marine Pollutant:	NO

TDG INFORMATION	
TDG CLASS:	Environmentally hazardous substance, n.o.s.
SHIPPING NAME:	Class 9
UN NUMBER/PACKING GROUP:	UN 3082, PGIII

SECTION 15 - REGULATORY INFORMATION

Precautionary Label Information:	Irritant	Ingredient Listings:	USA TSCA, Europe EINECS, Canada DSL, Australia AICS, Korea ECL/TCCL, Japan MITI (ENCS)
Symbols:	Xi		
Risk Phrases:	R-36/37/38 Irritating to eyes, respiratory system and skin.		S-35 Dispose of material and container in a safe way.
	R43: May cause sensitisation by skin contact.		S-29 Do not empty into drains, storm drains or watercourses.
Safety Phrases:	S-2/3 Keep in a cool place, out of reach of children.		S-37/39 Wear suitable gloves and eye protection.
	S-7 Keep container tightly closed when not in use.		S-45 If seeking medical advice show physician label or SDS.
	S-24/25 Avoid contact with skin and eyes.		S-51 Use only in well ventilated areas

SECTION 16 - OTHER INFORMATION

Specification Information:		
Department issuing data sheet:	IPS, Safety Health & Environmental Affairs	All ingredients are compliant with the requirements of the European Directive on RoHS (Restriction of Hazardous Substances).
E-mail address:	<EHSinfo@ipscorp.com>	
Training necessary:	Yes, training in practices and procedures contained in product literature.	
Reissue date / reason for reissue:	12/23/2014 / Updated GHS Standard Format	
Intended Use of Product:	2-Component, fast-setting, reactive, urethane-based adhesive	

This product is intended for use by skilled individuals at their own risk. The information contained herein is based on data considered accurate based on current state of knowledge and experience. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof.