# How to Read Global Harmonization SDS Sheets

Ross W Skaggs, CSP (ret) Safety Consulting Services Ada, OH 45810

Send me an email if you'd like a copy of this presentation:

<u>rwskaggs@centurylink.net</u> Cell = 419-408-3119



This is the DropBox link – feel free to photograph or copy:

https://www.dropbox.co m/sh/fzbc9c88m9qd76 w/AADNL-6ap0lefoJYgSHVo8oka?dl =()

# Session Objectives



 Understand the SDS portion of the GHS and how it affects hazard communication in the workplace

Recognize how the SDS improves



your access to vital safety, health, and environmental information about chemicals in the workplace



 Identify the 16 sections of the SDS and the information contained in each section

### Prequiz: How Much Do You Know?

Under the GHS, OSHA will no longer regulate workplace hazardous chemicals



RALISIP



The SDS contains less information than the old MSDS

The SDS can create a safer work environment for you and your co-workers

FAIST

The SDS will be harder to understand than the MSDS

# What Is the GHS?

Globally Harmonized System of **Classification and** Labeling of Chemicals Implemented through HazCom Provides a universal approach

 Includes new labels and SDSs





# The Benefits of The GHS and SDS

 Improved workplace safety Fewer exposures Consistent communications Greater hazard awareness • Easier compliance Enhanced human and environmental protection

# The Differences Between An SDS and an MSDS?

Organization
Information
Detail

Sections

# SECTION 1: Identification of Substance and Supplier

#### **SAFETY DATA SHEET**

Weld-On AA3 Low voc Solvent Cement for Bonding Acrylics

#### SECTION 1-IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME: PRODUCT USE: SUPPLIER: EMERGENCY: Tran	Weld-On AA3 Low VoC Solvent Cement for Acrylic Low VOC Solvent Cement for Bonding Acrylics sportation: Tel. 800-424-9300, 703-527-3887 CHEMTREC	Manufacturer: (International)	IPW Corporation 17109 South Main Street, Carson, CA 90248-3127 P.O. Box 379, Gardena, CA 90247-0379 Tel. 1-310-898-3300 <b>Medical:</b> Tel. 800-451-8346
SECTION 2-H	IAZARDS IDENTIFICATION		
GHS CLASSIFICA	ATION:		

Acute Toxicity Skin Irritation:	Health Category 4 Category 3	Environr Acute Toxicity: Chronic Toxicity:	nental None Known None Known	Physical
Skin Sensitization: Eye:	No Category 2B			
OUG LADEL.				

GHS LABEL:



# **SECTION 2:** Hazards Identification 17109 South Main Street, Carson, CA 90248-3127 P.O. Box 379, Gardena, CA 90247-0379

Tel. 1-310-898-3300

EMERGENCY: Transportation: Tel. 800-424-9300, 703-527-3887 CHEMTREC (International)

Medical: Tel. 800-451-8346

#### SECTION 2-HAZARDS IDENTIFICATION

**GHS CLASSIFICATION:** 

Hea	lth	Environme	ntal		Physical
Acute Toxicity Skin Irritation: Skin Sensitization: Eye:	Category 4 Category 3 No Category 2B	Acute Toxicity: Chronic Toxicity:	None Known None Known		
GHS LABEL:	OR	Signal Word: Warning	WHMIS	CLASSIFICATION:	CLASS D, DIVISION 1
Hazard H320: Causes eye irritati H335: May cause respira H336: May cause drows H351: Suspected of caus	Statements ion atory irritation iness or dizziness sing cancer	P210: Keep awa P261: Avoid bre P280: Wear prot	Pre y from heat/sparks athing dust/fume/e tective gloves/prot	ecautionary Statement s/open flames/hot surf gas/mist/vapors/spray ective clothing/eye pro	<u>s</u> faces - No smoking otection/face protection
SECTION 3-COMPO	SITION/INFORMATI	ON ON INGREDIENTS			
Methylene Chloride* (dio Trichloroethylene*	chloromethane)	CAS# 75-09-2 79-01-6	EINECS# 200-838-9 201-167-4	REACH Pre-registration Num Under developm Under developm	CONCENTRATION ber % by Weight ent 75-90 ent 5-15

GHS LABEL

**SECTION 3:** 

# Composition and Information On Ingredients

#### SECTION 3-COMPOSITION/INFORMATION ON INGREDIENTS

	CA94	FINECCA	REACH	CONCENTRATION
	UNOT	EINEG9#	ncaun	CONCENTRATION
			Pre-registration Number	% by Weight
Methylene Chloride* (dichloromethane)	75-09-2	200-838-9	Under development	75-90
Trichloroethylene*	79-01-6	201-167-4	Under development	5-15
Methyl Methacrylate Monomer*, Stabilized (MMA)	80-62-6	201-297-1	05-2116297731-37-0000	0-1

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.

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

#### SECTION 4-FIRST AID MEASURES

Contact with eyes:Flush eyes immediately with plenty of water for 15 minutes and seek medical advice immediately.Skin contact:Wash skin with soap and water If irritation develops, get medical attention.Inhalation:Remove to fresh air. If breathing is stopped, give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice.Ingestion:Do not induce vomiting. Seek medical advice immediately.

#### **SECTION 5-FIREFIGHTING MEASURE**

Suitable Extinguishing Media:	Water fog or fine spray, carbon dioxide, dry chemical or foa		HMIS	NFPA	0-Minimal
Unsuitable Extinguishing Media:	Dry chemical powder.	Health	2	2	1-Slight
Exposure Hazards:	Inhalation and dermal contact.	Flammability	1	1	2-Moderate
Combustion Products:	Hydrogen chloride, trace amounts of chlorine, phosgene.	Reactivity			3-Serious
Protection for Firefighters:	Wear positive-pressure self-contained breathing apparatus				4-Severe
	(SCBA) and protective fire fighting clothing.				

# **SECTION 4:**

First-Aid Measures

H336: May cause drowsiness or dizziness H351: Suspected of causing cancer

#### SECTION 3-COMPOSITION/INFORMATION ON INGREDIENTS

	CAS#	EINECS#	REACH Pre-registration Number	CONCENTRATION % by Weight
Methylene Chloride* (dichloromethane) Trichloroethylene*	75-09-2 79-01-6	200-838-9	Under development	75-90 5-15
Methyl Methacrylate Monomer*, Stabilized (MMA)	80-62-6	201-297-1	05-2116297731-37-0000	0-1

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.

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

#### SECTION 4-FIRST AID MEASURES

Contact with eyes:	Flush eyes immediately with plenty of water for 15 minutes and seek medical advice immediately.
Skin contact:	Wash skin with soap and water If irritation develops, get medical attention.
Inhalation:	Remove to fresh air. If breathing is stopped, give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice.
Ingestion:	Do not induce vomiting. Seek medical advice immediately.

#### SECTION 5-FIREFIGHTING MEASURE

Suitable Extinguishing Media:	Water fog or fine spray, carbon dioxide, dry chemical or foa	ım.	HMIS	NFPA	0-Minimal
Unsuitable Extinguishing Media:	Dry chemical powder.	Health	2	2	1-Slight
Exposure Hazards:	Inhalation and dermal contact.	Flammability	1	1	2-Moderate
Combustion Products:	Hydrogen chloride, trace amounts of chlorine, phosgene.	Reactivity	0	0	3-Serious
Protection for Firefighters:	Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing.				4-Severe





### **True or False?**



The GHS replaces the current HazCom in the U.S.



The GHS is a worldwide system for promoting the safe use of substances in the workplace



The use of the SDS is optional

The SDS will generally contain more complete information than the MSDS



The GHS and SDS are expected to reduce workplace accidents and exposures

# Review

### •Do you understand:

- Purpose of the GHS?
- Benefits of the GHS and the SDS?
- Differences between the SDS and MSDS?
- Sections 1–4 of the SDS?



SECTION 5:

**Fire-Fighting Measures** 

Contact with eyes: Flush eyes immediately with plenty of water for 15 minutes and seek medical advice immediately. Skin contact: Inhalation: Remove to fresh air. If breathing is stopped, give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice. Do not induce vomiting. Seek medical advice immediately. Ingestion:

#### SECTION 5-FIREFIGHTING MEASURES

Suitable Extinguishing Media:	Water fog or fine spray, carbon dioxide, dry chemical or foam.		HMIS	NFPA	0-Minimal
Unsuitable Extinguishing Media:	Dry chemical powder.	Health	2	2	1-Slight
Evnoeuro Hazarde	Inhalation and dermal contact	Reactivity	0	0	3-Serious
		nousinny	Ŭ.	č	4-Severe
Combustion Products:	Hydrogen chloride, trace amounts of chlorine, phosgene.				
Protection for Firefighters:	Wear positive-pressure self-contained breathing apparatus (SCBA) and pre-	rotective fire fi	ighting c	lothing	<b>]</b> .

#### SECTION 6-ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Clear all personnel from area. Do not breathe vapors. Ventilate area of leak or spill. Wear protective equipment. positive pressure self contained or air supplied breathing apparatus. Follow confined space entry procedures.
Environmental Precautions:	Prevent product or liquids contaminated with product from entering sewers, drains, soil or open water course.
Methods for Cleaning up:	Mop or soak up immediately. Place in properly labeled metal containers.
Materials not to be used for clean up:	Zinc, Aluminum, or plastic containers.

#### SECTION 7-HANDLING AND STORAGE

Handling:	Avoid breathing of vapor, avoid contact with eyes, skin and clothing Do not swallow. Use with adequate ventilation. Do not cut, drill grind, weld or perform similar operations on or near empty ontainers. Vapors of this product are beavier than air and will collect in low areas.
Storage:	Do not eat, drink or smoke while handling. Store in a dry place. Keep container tightly closed when not in use. Significant vapor pressures (>5psi) can be

#### SECTION 8-PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

Evnoeuro limite	Component	ACCIH TIV	ACGIH STEL	OSHA PEL	OSHA STEL
LAPUSUIG IIIIIIS.	Companent.	MOGHTILLA	NUGINIOTEL	VOUMTEE	USITA STEE

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.

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

# **SECTION 6:**

### **Accidental Release Measures**

Ingestion:

Do not induce vomiting. Seek medical advice immediately

#### SECTION 5-FIREFIGHTING MEASURES

Suitable Extinguishing Media:	Water fog or fine spray, carbon dioxide, dry chemical or foam.	Lleeläh	HMIS	NFPA	0-Minimal
Unsuitable Extinguishing Media:	Dry chemical powder.	Flamability	2	2	2-Moderate
Exposure Hazards:	Inhalation and dermal contact.	Reactivity	0	0	3-Serious
Combustion Products:	Hydrogen chloride, trace amounts of chlorine, phosgene.				4-Severe
Protection for Firefighters:	Wear positive-pressure self-contained breathing apparatus (SCBA) and pro	otective fire fi	ghting cl	othing	

#### SECTION 6-ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Clear all personnel from area. Do not breathe vapors. Ventilate area of leak or spill. Wear protective equipment. positive pressure self contained or air supplied breathing apparatus. Follow confined space entry procedures.
Environmental Precautions:	Prevent product or liquids contaminated with product from entering sewers, drains, soil or open water course.
Methods for Cleaning up:	Mop or soak up immediately. Place in properly labeled metal containers.
Materials not to be used	Zinc, Aluminum, or plastic containers.

#### SECTION 7-HANDLING AND STORAGE

Handling:	Avoid breathing of vapor, avoid contact with eyes, skin and clothing Do not swallow. Use with adequate ventilation.
	Do not cut, drill grind, weld or perform similar operations on or near empty ontainers. Vapors of this product are
	heavier than air and will collect in low areas.
	Do not eat, drink or smoke while handling.
Storage:	Store in a dry place. Keep container tightly closed when not in use. Significant vapor pressures (>5psi) can be

#### SECTION 8-PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

Exposure limits:	Component	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL:
	Methylene chloride (dichloromethane)	50 ppm	N/E	25 ppm	125
	Trichloroethylene	50 ppm	100 ppm	100 ppm	N/E
	Methyl Methacrylate Monomer, Stabilized (MMA)	50 ppm	100 ppm	100 ppm	N/E

#### Contra with tyter. Their tyte internation with promy community in the numbers and seek interest advice transformery.

with some soft with your and with a function develops, get midded attention

miniarant Fernande 10 Peter III (Constituted La anoppost, Greg Artilloral respiration, di Constituteg in delocuit, give oxygen. Seek medical advice, Increasing

# **SECTION 7:**

Hand	ling	and	Sto	
ilalia	11116	ana	3101	uge

Combustion Products: Protection for Firefighters: Hydrogen chloride, trace amounts of chlorine, phosgene.

Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing.

#### SECTION 6-ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** 

**Environmental Precautions:** 

Methods for Cleaning up: Materials not to be used

for clean up:

Clear all personnel from area. Do not breathe vapors. Ventilate area of leak or spill. Wear protective equipment. positive pressure self contained or air supplied breathing apparatus. Follow confined space entry procedures. Prevent product or liquids contaminated with product from entering sewers, drains, soil or open water course. Mop or soak up immediately. Place in properly labeled metal containers. Zinc, Aluminum, or plastic containers.

#### SECTION 7-HANDLING AND STORAGE

Handling:	Avoid breathing of vapor, avoid contact with eyes, skin and clothing Do not swallow. Use with adequate ventilation.
	heavier than air and will collect in low areas.
Storage:	Store in a dry place. Keep container tightly closed when not in use. Significant vapor pressures (>5psi) can be
	generated above 55°F. Follow all precautionary information on container label, product bulletins and solvent bonding literature.

#### **SECTION 8-PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION**

Exposure limits:	Component Methylene chloride (dichloromethane) Trichloroethylene Methyl Methacrylate Monomer, Stabilized (MMA)	ACGIH TLV 50 ppm 50 ppm 50 ppm	ACGIH STEL N/E 100 ppm 100 ppm	OSHA PEL 25 ppm 100 ppm 100 ppm	OSHA STEL: 125 N/E N/E
Engineering controls:	Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines. immediately wash skin area with soap and water and launder clothing before reuse or dispose of properly.				
Monitoring:	Maintain breathing zone airborne concentration	s below exposu	re limits.		

Personal Protective Equipment (PPE)

Environmental Precautions: Methods for Cleaning up: Materials not to be used for clean up: positive pressure self contained or air supplied breathing apparatus. Follow confined space entry procedures. Prevent product or liquids contaminated with product from entering sewers, drains, soil or open water course. Mop or soak up immediately. Place in properly labeled metal containers.

# **SECTION 8:**

### Exposure Controls and PPE

Do not eat, drink or smoke while handling.

Storage:

Store in a dry place. Keep container tightly closed when not in use. Significant vapor pressures (>5psi) can be generated above 55°F.

Follow all precautionary information on container label, product bulletins and solvent bonding literature.

#### SECTION 8-PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

Exposure limits:	Component	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL:		
	Methylene chloride (dichloromethane)	50 ppm	N/E	25 ppm	125		
	Trichloroethylene	50 ppm	100 ppm	100 ppm	N/E		
	Methyl Methacrylate Monomer, Stabilized (MMA)	50 ppm	100 ppm	100 ppm	N/E		
Engineering controls:	Provide general and/or local exhaust ventilation immediately wash skin area with soap and water	to control airbo r and launder cl	orne levels below lothing before re	the exposure use or dispose	guidelines. of properly.		
Monitoring:	Maintain breathing zone airborne concentrations	below exposur	e limits.				
Personal Protective Equipm	ient (PPE)						
Eye Protection:	Use chemical goggles. If exposure causes eye dis	Use chemical goggles. If exposure causes eye discomfort, use a full-face respirator.					
Skin protection:	Prevent contact with the skin as much as possible. Use protective clothing chemically resistant to this material. Re- move contaminated clothing immediately, wash skin area with soap and water and launder clothing before reuse or dis- pose of properly.						
Respiratory Protection:	Prevent inhalation of the solvents. Use in a well-ventilated room. Open doors and/or windows to ensure airflow and air changs. Use local exhaust ventilation to remove airborne contaminants from employee breathing zone and to keep contaminants below levels listed above. With normal use, the Exposure Limit Value will not usually be reached. When limits approached, use respiratory protection equipment.						
SECTION 9-PHYSICAL	AND CHEMICAL PROPERTIES						

Appearance:	Clear thin liquid		
Odor:	Irritating	Odor Threshold:	250 ppm (Methylene Chloride)
pH:	Not Applicable		
Melting/Freezing Point:	-96.7°C (-142.1°F) Methylene Chloride)		
Boiling Point:	39.8°C (104°F) Based on first	Evaporation Rate:	>1.0 (BUAC=1)
	boiling component: Methylene Chloride		
Floob Doluk	Mana (Mathudana Oblavida)	El e un un e la Hitarra	Mana

Personal Protective Equipment (PPE

iye Protection:

Skin protection



# Physical and Chemical Properties

ts approached, use respiratory protection equipment.

#### SECTION 9-PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear thin liquid		
Odor:	Irritating	Odor Threshold:	250 ppm (Methylene Chloride)
pH:	Not Applicable		
Melting/Freezing Point:	-96.7°C (-142.1°F) Methylene Chloride)		
Boiling Point:	39.8°C (104°F) Based on first	Evaporation Rate:	>1.0 (BUAC=1)
-	boiling component: Methylene Chloride		
Flash Point:	None (Methylene Chloride)	Flammability:	None
Specific Gravity:	1.32 @23°C (73.4°F)	Flammability Limits:	LEL: 14% (Methylene Chloride)
Solubility:	1.3 @ 25°C (Methylene Chloride)		UEL: 22% (Methylene Chloride)
Partition coefficient n-octanol/water;	Not Available	Vapor Pressure:	355 mmHG @ 20C (Mithylene chloride)
Auto-ignition Temperature:	556°C (1033°F) (Methylene Chloride)	Vapor Density:	>2.0 (Air = 1)
Decomposition Temperature:	Not Applicable	Other Data: Viscosity:	Water-thin
VOC Content:	When appied as directed,		
	per SCAFQMD Rule 1168, Test Method 316A,		
	VOC content is <250 a/l.		

#### SECTION 10-STABILITY AND REACTIVITY

Stability: Hazardous decomposition products:	Stable under recommended storage conditions. (See Section 7) Depending on temperature and air supply, may include hydrogen chloride, trace amounts of chlorine, phosgene.
Conditions to avoid: Incompatible Materials:	Avoid open flames, welding arcs, or other high temperature sources. Avoid direct sunlight. Oxidizers strong bases, amines, metals such as zinc pwowders aluminum or magnesium powders, potas- sium sodium.

#### SECTION 11-TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Acute symptoms and effects: Inhalation: Excessive overexposure may cause irritation to nose and throat. In confined areas, vapor can accumulate and can cause unconsciousness. Molling/Treasing Poly

# **SECTION 10:**

ate: >1.0 (BUA

CEL: 14% (Methyleno Chloride) UEL: 22% (Minhylene Chloride) 355 minHS & 20C (Mithylene chloride) >2.0 (Alr = 1) Wates thin

# Stability and Reactivity

VOC content is <250 g/l.

#### SECTION 10-STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions. (See Section 7)
Hazardous decomposition products:	Depending on temperature and air supply, may include hydrogen chloride, trace amounts of chlorine,
Conditions to avoid: Incompatible Materials:	Avoid open flames, welding arcs, or other high temperature sources. Avoid direct sunlight. Oxidizers strong bases, amines, metals such as zinc pwowders aluminum or magnesium powders, potas- sium sodium.

#### SECTION 11-TOXICOLOGICAL INFORMATION

Likely Routes of Exposure Acute symptoms and effe	e: Inhalation, Eye	and Skin contact				
Inhalation:	Excessive over cause unconso	exposure may cause iousness.	e irritation to nose and t	hroat. In confin	ed areas, vapoi	can accumulate and can
Eye Contact	: May cause mo mild discomfo	derate eye irritation which may be slow to heal. May cause slight corneal injury. Vapor may cause				
Skin Contac	t: Prolonged con aloves).	tact may cause skin	burns. May cause more	e severe respon	se on covered :	skin (under clothing and
Ingestion: Low toxicity if		small amount swallowed, however larger amounts may cause injury. Aspiration into the lungs may				
Chronic (long term) effec	ts: IARC Classifica	ition 2B (Methylene	Chloride)			
Toxicity: Methylene Chloride (dich Trichloroethylene Methyl Methacrylate Mor	lloromethane) nomer, Stabilized (MMA)	LD 50 Oral: 1500-2500 m Oral: 5650 mg/kg ( Oral: 7900 mg/kg (	g/kg (rat), Dermal: Not rat) rat), dermal: >35000 m	Determined g/kg (rabbit)	LC50 Inhalation 7 Inhalation 4 Inhalation: 3	hrs. >10000 PPM (rat) hrs. 12000PPM (rat) hrs. 7093 PPM (rat)
Reproductive Effects	Teratognicity	Mutagenicity	Embryotoxicity	Sensitizatio	n to Product	Synergistic Products

#### SECTION 12-ECOLOGICAL INFORMATION



/hen appied as directed, er SCAFQMD Rule 1168, Test Method 316A, 'OC content is <250 g/l.

# **SECTION 11:**

# **Toxicological Information**

sium sodiur

#### SECTION 11-TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Acute symptoms and effects:	Inhalation, Eye	and Skin contact				
Inhalation:	Excessive over cause unconso	exposure may cause irri ciousness.	itation to nose and thr	oat. In confine	d areas, vapor	can accumulate and can
Eye Contact:	May cause moderate eye irritation which may be slow to heal. May cause slight corneal injury. Vapor may cau mild discomfort and redness.			ijury. Vapor may cause		
Skin Contact:	Prolonged contact may cause skin burns. May cause more severe response on covered skin (under clothing gloves).			kin (under clothing and		
Ingestion:	Low toxicity if occur during in	small amount swallowe ngestion or vomiting.	d, however larger amo	ounts may caus	e injury. Aspira	ation into the lungs may
Chronic (long term) effects:	IARC Classifica	ation 2B (Methylene Chl	oride)			
Toxicity: Methylene Chloride (dichlorometh Trichloroethylene Methyl Methacrylate Monomer, St	ane) abilized (MMA)	LD 50 Oral: 1500-2500 mg/kg Oral: 5650 mg/kg (rat) Oral: 7900 mg/kg (rat)	g (rat), Dermal: Not De , dermal: >35000 mg/ł	etermined kg (rabbit)	LC50 Inhalation 7 h Inhalation 4 h Inhalation: 3h	nrs. >10000 PPM (rat) nrs. 12000PPM (rat) nrs. 7093 PPM (rat)
Reproductive Effects Terato	anicity	Mutagenicity	Embryotoxicity	Sensitization	to Product	Syneraistic Products

Reproductive Effects	Teratognicity	Mutagenicity	Embryotoxicity	Sensitization to Product	Synergistic Products
Not Established	Not Established	Not Established	Not Established	Not Established	Not Established

#### SECTION 12-ECOLOGICAL INFORMATION

 Ecotoxicity:
 None Known

 Mobility:
 In normal use, emission of volatile organic compounds (VOC's) to the air takes place, typically at a rate of <250 g/l. Mobility in soil is high.</td>

 Degradability:
 Not readily biodegradable

 Bioaccumulation:
 Low

#### SECTION 13-WASTE DISPOSAL CONSIDERATIONS

Fcol	ogic	al In	SEC1	<b>FION</b>	12:		
Reproductive	0810	itognicity	Mutagenicity	Embryotoxicity			Synergistic Products
SECTION 1	2-ECOLOGICAL	INFORMATIO	V				
Ecotoxicity: Mobility:	None Known In normal use, o Mobility in soil	emission of vola s high.	tile organic compounds	(VOC's) to the air takes	s place, typically at a	rate of <25	50 g/l.

Degradability: Not readily biodegradable Bioaccumulation: Low

#### SECTION 13-WASTE DISPOSAL CONSIDERATIONS

Chemical residues are generally classified as hazardous waste, and as such are covered by regulations which vary according to location. Contact your local waste disposal authority for advice, or pass to a licensed chemical disposal company. Rinse out empty containers thoroughly before returning for recycling. Washing liquid should not be allowed to enter drains but be disposed of as hazardous waste.

When recovery and recycling is not possible, incineration in a high-temperature incinerator is the recommended method of disposal.

Do not allow to enter drinking water suppleis, waste water, or soil.

#### SECTION 14-TRANSPORTATION INFORMATION

Proper Shipping Name: Hazard Class: Secondary Risk: Identification Number: Packing Group Label Required: Marine Pollutant: Dichloromethane (Mixture) 6.1 None UN 1593 PG III Toxic (Domestic USA and International) NO

#### EXCEPTION for Ground Shipping

DOT Limited Quantity: Up to 4L per inner packaging, 30 kg gross weight per package. Consumer Commodity: Depending on packaging, these quantities may qualify under DOT as "ORM-D"

TDG INFORMATION				
TDG CLASS:	Toxic 6.0			
SHIPPING NAME:	Dichloromethane (Mixture)			
UN NUMBER/PACKING GROUP	UN 1593 PGII			

#### SECTION 15-REGULATORY INFORMATION

Precautionary Label Information: Harmful, Suspected Carcinogen

Ingredient Listings: USA TSCA Europe EINECS, Canada DSL, Australia

Chronic (long te Toxicity: Methylene Chlo Trichi y athyler		S	SECT	ION <sup>•</sup>	13:		
Disp	005	sal Co	nside	ration	So (rabbit)		
Reproductive c1			Mutagenicity	<b>Embryotoxicity</b>			Synergistic Product
Not Establishe	d	Not Established	Not Established	Not Established	Not Est	lablished	Not Established
SECTION 12	2-ECOLO	GICAL INFORMATIO	N				
Ecotoxicity: Mobility:	None Kno In norma Mobility i	own I use, emission of vol in soil is high.	atile organic compound	s (VOC's) to the air takes	s place, typical	ly at a rate of <2	50 дЛ.
Degradability: Bioaccumulatio	Not readi n: Low	ly biodegradable					

#### SECTION 13-WASTE DISPOSAL CONSIDERATIONS

Chemical residues are generally classified as hazardous waste, and as such are covered by regulations which vary according to location. Contact your local waste disposal authority for advice, or pass to a licensed chemical disposal company. Rinse out empty containers thoroughly before returning for recycling. Washing liquid should not be allowed to enter drains but be disposed of as hazardous waste.

When recovery and recycling is not possible, incineration in a high-temperature incinerator is the recommended method of disposal.

Do not allow to enter drinking water suppleis, waste water, or soil.

#### SECTION 14-TRANSPORTATION INFORMATION

Proper Shipping Name: Hazard Class: Secondary Risk: Identification Number: Packing Group Label Required: Marine Pollutant: Dichloromethane (Mixture)

6.1 None UN 1593 PG III

Toxic (Domestic USA and International) NO

#### **EXCEPTION for Ground Shipping**

DOT Limited Quantity: Up to 4L per inner packaging, 30 kg gross weight per package. Consumer Commodity: Depending on packaging, these quantities may qualify under DOT as "ORM-D"

	TDG INFORMATION	
FDG CLASS:	Toxic 6.0	
JN NUMBER/PACKING GROUP	UN 1593 PGIII	

#### SECTION 15-REGULATORY INFORMATION

# **SECTION 14: Transportation Information**

Follow local and national regulations. Consult disposal expert.

#### SECTION 14-TRANSPORTATION INFORMATION

Proper Shipping Name: Hazard Class: Secondary Risk: Identification Number: Packing Group Label Required: Marine Pollutant:

Sumbole:

Dichloromethane (Mixture) 6.1 None DOT as "ORM-D" UN 1593 PG III Toxic (Domestic USA and International) **TDG INFORMATION** NO TDG CLASS:

#### **EXCEPTION for Ground Shipping**

DOT Limited Quantity: Up to 4L per inner packaging, 30 kg gross weight per package. Consumer Commodity: Depending on packaging, these quantities may qualify under

SHIPPING NAME: UN NUMBER/PACKING GROUP

Toxic 6.0 Dichloromethane (Mixture) **UN 1593 PGIII** 

#### SECTION 15-REGULATORY INFORMATION

Precautionary Label Information: Harmful, Suspected Carcinogen

Vn

Ingredient Listings: USA TSCA Europe EINECS, Canada DSL, Australia AICS, Korea, ECL/TCCL, Japan MITI (ENS), CA Prop 65

oynnuurs.	All
Risk Phrases:	R23/34/35: Toxic by inhalation, in contact with skin and if swallowed
	R36/37: Irritating to eyes and respiratory system.
	R40: Possible risks of irreversible effects.
	R66: Repeated exposure may cause jskin dryness or cracking
	R67: Vapors may cause drowsniness and dizziness
Safety Phrases:	S2: Keep out of the reach of children.
	S7: Keep container tightly closed when not in use
	S9: Keep container in a well-ventilated place.
	S16: Keep away from sources of ignition No smoking.
	S23/24/25: Avoid breathing vapors, contact with skin and eves.
	S26: In case of contact with eves, rinse immediately with plenty of water and seek medical advice.
	S29: Do not emoty into drains.
	\$22. Take precautionany measures against static discharges

# **SECTION 15 & 16:** Regulatory and Other

Toxic 6.0 Dichloromethane (Mixture) UN 1593 PGIII

#### SECTION 15-REGULATORY INFORMATION

Precautionary Labe	el Information:	Harmful, Suspected Carcinogen	Ingredient Listings: USA TSCA Europe EINECS, Canada DSL, Australia AICS, Korea, ECL/TCCL, Japan MITI (ENS), CA Prop 65
Symbols:	Xn		
Risk Phrases:	R23/34/35: Tox R36/37: Irritatir R40: Possible r R66: Repeated R67: Vapors ma	ic by inhalation, in contact with skin and ng to eyes and respiratory system. isks of irreversible effects. exposure may cause jskin dryness or cra ay cause drowsniness and dizziness	if swallowed cking
Safety Phrases:	S2: Keep out of S7: Keep contai S9: Keep contai S16: Keep away S23/24/25: Avo S26: In case of S29: Do not em S33: Take preca S51: Use only i	the reach of children. iner tightly closed when not in use iner in a well-ventilated place. If from sources of ignition No smoking. id breathing vapors, contact with skin an contact with eyes, rinse immediately with opty into drains. intionary measures against static dischar n well ventilated areas.	d eyes. I plenty of water and seek medical advice. des.

#### 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).
Email address:	EHSinfo@ipscorp.com
Training necessary:	Yes training in practices and procedures contained in product literature.
Reissue date / reason for reissue:	2/19/2010 / Modified GhS Standard Format
Intended Use of Product:	Solvent Cement for Bonding Acrylics

This product is intended for use by skilled indiiduals 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.



# Review

 Do you understand: Sections 5–16 of the SDS?



# KEY POINTS To Remember!

- It is essential to have complete and accurate information about the substances you use
- The SDS helps prevent accidents and exposures
- •Always consult the SDS for the substances you use on the job.