

J-B Weld Herculiner Roll-on - Black J-B Weld Company LLC

Version No: **2.12.4.2**Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

Issue Date: 01/06/2021 Print Date: 06/01/2021 S.GHS.USA.EN

SECTION 1 Identification

Product Identifier

	1 Todate Identifier				
	Product name J-B Weld Herculiner Roll-on - Black				
Synonyms HCL1B8, HCL1B7, HCL1B3 (Roll-On Black)					
	Proper shipping name	Paint			
Other means of identification Not Available		Not Available			

Recommended use of the chemical and restrictions on use

Relevant identified uses	Use according to manufacturer's directions.
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Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Registered company name	J-B Weld Company LLC	
Address 400 CMH Road Sulphur Springs TX 75482 United States		
Telephone	Telephone 903-885-7696	
Fax Not Available		
Website WWW.JBWeld.com		
Email info@JBWeld.com		

Emergency phone number

Association / Organisation InfoTrac		InfoTrac
	Emergency telephone numbers	Transportation Emergencies: 800-535-5053 or (24 hours)
	Other emergency telephone numbers	Poison Control Centers: Medical Emergencies 800-222-1222 (24 hours)

SECTION 2 Hazard(s) identification

Classification of the substance or mixture

Classification

Flammable Liquid Category 3, Eye Irritation Category 2A, Respiratory Sensitizer Category 1, Specific target organ toxicity - single exposure Category 3 (narcotic effects), Specific target organ toxicity - repeated exposure Category 2, Acute Toxicity (Inhalation) Category 4, Specific target organ toxicity - single exposure Category 3 (respiratory tract irritation), Acute Toxicity (Oral) Category 4, Skin Corrosion/Irritation Category 2, Skin Sensitizer Category 1, Carcinogenicity Category 2

Label elements

Hazard pictogram(s)







Signal word

Danger

Hazard statement(s)

H226	Flammable liquid and vapour.			
H319	Causes serious eye irritation.			
H334	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.			
H336 May cause drowsiness or dizziness.				
H373 May cause damage to organs through prolonged or repeated exposure. (Respiratory system) (Inhalation)				
H332	Harmful if inhaled.			
H335	May cause respiratory irritation.			

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H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H351	Suspected of causing cancer.

Hazard(s) not otherwise classified

Not Applicable

Supplementary statement(s)

Not Applicable

Precautionary statement(s) Prevention

Frecautionary statement(s) Frevention				
P201	Obtain special instructions before use.			
P210	P210 Keep away from heat/sparks/open flames/hot surfaces No smoking.			
P260	P260 Do not breathe mist/vapours/spray.			
P271	Use in a well-ventilated area.			
P280	P280 Wear protective gloves, protective clothing, eye protection and face protection.			
P281 Use personal protective equipment as required.				
P285 In case of inadequate ventilation wear respiratory protection.				
P240 Ground/bond container and receiving equipment.				
P241 Use explosion-proof electrical/ventilating/lighting/intrinsically safe equipment.				
P242	Use only non-sparking tools.			
P243 Take precautionary measures against static discharge.				
P270	Do not eat, drink or smoke when using this product.			
P272	Contaminated work clothing should not be allowed out of the workplace.			

Precautionary statement(s) Response

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.				
IF exposed or concerned: Get medical advice/attention.				
P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.				
Take off contaminated clothing and wash before reuse.				
In case of fire: Use alcohol resistant foam or normal protein foam for extinction.				
P302+P352 IF ON SKIN: Wash with plenty of water and soap.				
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.				
If skin irritation or rash occurs: Get medical advice/attention.				
If eye irritation persists: Get medical advice/attention.				
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.				
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.				
Rinse mouth.				

Precautionary statement(s) Storage

P403+P235	P403+P235 Store in a well-ventilated place. Keep cool.			
P405	Store locked up.			

Precautionary statement(s) Disposal

P501	Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.
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SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name			
1330-20-7	10-30 <u>xylene</u>				
100-41-4	3-7	3-7 <u>ethylbenzene</u>			
26447-40-5*	40-70 <u>diphenylmethane diisocyanate (MDI) mixed isomers</u>				
101-68-8	3-7	4.4'-diphenylmethane diisocyanate (MDI)			
54914-37-3 1-5 <u>Latent aliphatic polyamine</u>		Latent aliphatic polyamine			

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4 First-aid measures

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Description of first aid measures

If this product comes in contact with the eyes: Immediately hold eyelids apart and flush the eye continuously with running water. Figure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper **Eve Contact** ▶ Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Transport to hospital or doctor without delay. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. If skin contact occurs: Immediately remove all contaminated clothing, including footwear. **Skin Contact** Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation. If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Inhalation Perform CPR if necessary. Transport to hospital, or doctor, without delay. Following uptake by inhalation, move person to an area free from risk of further exposure. Oxygen or artificial respiration should be administered as needed. Asthmatic-type symptoms may develop and may be immediate or delayed up to several hours. Treatment is essentially symptomatic. A physician should be consulted. If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of ► If swallowed do **NOT** induce vomiting If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Ingestion ▶ Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Figive water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink Seek medical advice. Avoid giving milk or oils.

Most important symptoms and effects, both acute and delayed

Avoid giving alcohol.

See Section 11

SECTION 5 Fire-fighting measures

Extinguishing media

- Foam
- Dry chemical powder.

Special hazards arising from the substrate or mixture

Fire Incompatibility

▶ Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

Special protective equipment and precautions for fire-fighters

Fire Fighting Alert Fire Department and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. Liquid and vapour are flammable. Moderate fire hazard when exposed to heat or flame. Combustion products include: carbon dioxide (CO2) isocyanates and minor amounts of hydrogen cyanide nitrogen oxides (NOx) other pyrolysis products typical of burning organic material. When heated at high temperatures many isocyanates decompose rapidly generating a vapour which pressurises containers, possibly to the point of rupture. Release of toxic and/or flammable isocyanate vapours may then occur

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills Ren

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Major Spills

Liquid Isocyanates and high isocyanate vapour concentrations will penetrate seals on self contained breathing apparatus - SCBA should be used inside encapsulating suit where this exposure may occur.

For isocyanate spills of less than 40 litres (2 m2):

- Evacuate area from everybody not dealing with the emergency, keep them upwind and prevent further access, remove ignition sources and, if inside building, ventilate area as well as possible.
- Notify supervision and others as necessary.
- Avoid contamination with water, alkalies and detergent solutions
- ▶ Material reacts with water and generates gas, pressurises containers with even drum rupture resulting.
- Clear area of personnel and move upwind.
- Alert Fire Brigade and tell them location and nature of hazard.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 Handling and storage

Precautions for safe handling

Safe handling

- $\begin{tabular}{ll} \blacktriangleright & \textbf{Electrostatic discharge may be generated during pumping this may result in fire.} \end{tabular}$
- ► Ensure electrical continuity by bonding and grounding (earthing) all equipment.
- Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs.
- ▶ DO NOT allow clothing wet with material to stay in contact with skin

Other information

Consider storage under inert gas.

for commercial quantities of isocyanates:

- ·Isocyanates should be stored in adequately bunded areas. Nothing else should be kept within the same bunding.
- Store in original containers.
- Keep containers securely sealed.

Conditions for safe storage, including any incompatibilities

- Lined metal can, lined metal pail/ can.
- Plastic pail.

For low viscosity materials

Suitable container

- Drums and jerricans must be of the non-removable head type.
- Where a can is to be used as an inner package, the can must have a screwed enclosure.

All inner and sole packagings for substances that have been assigned to Packaging Groups I or II on the basis of inhalation toxicity criteria, must be hermetically sealed.

Xylenes:

- ▶ may ignite or explode in contact with strong oxidisers, 1,3-dichloro-5,5-dimethylhydantoin, uranium fluoride
- attack some plastics, rubber and coatings
- ▶ may generate electrostatic charges on flow or agitation due to low conductivity.
- Vigorous reactions, sometimes amounting to explosions, can result from the contact between aromatic rings and strong oxidising agents.
- Aromatics can react exothermically with bases and with diazo compounds.

Storage incompatibility

The alkyl side chain of aromatic rings can undergo oxidation by several mechanisms. The most common and dominant one is the attack by oxidation at benzylic carbon as the intermediate formed is stabilised by resonance structure of the ring.

- Avoid reaction with water, alcohols and detergent solutions. Isocyanates are electrophiles, and as such they are reactive toward a variety of nucleophiles including alcohols, amines, and even water.
 - A range of exothermic decomposition energies for isocyanates is given as 20-30 kJ/mol.
 - The relationship between energy of decomposition and processing hazards has been the subject of discussion; it is suggested that values of energy released per unit of mass, rather than on a molar basis (J/g) be used in the assessment.

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US OSHA Permissible Exposure Limits (PELs) Table Z-1	xylene	Xylenes (o-, m-, p-isomers)	100 ppm / 435 mg/m3	Not Available	Not Available	Not Available
US ACGIH Threshold Limit Values (TLV)	xylene	Xylene (all isomers)	100 ppm	150 ppm	Not Available	(); A4; BEI
US OSHA Permissible Exposure Limits (PELs) Table Z-1	ethylbenzene	Ethyl benzene	100 ppm / 435 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	ethylbenzene	Ethyl benzene	100 ppm / 435 mg/m3	545 mg/m3 / 125 ppm	Not Available	Not Available
US ACGIH Threshold Limit Values (TLV)	ethylbenzene	Ethyl benzene	20 ppm	Not Available	Not Available	(); A3; BEI
US OSHA Permissible Exposure Limits (PELs) Table Z-1	4,4'-diphenylmethane diisocyanate (MDI)	Methylene bisphenyl isocyanate (MDI)	Not Available	Not Available	0.02 ppm / 0.2 mg/m3	Not Available
US NIOSH Recommended Exposure Limits (RELs)	4,4'-diphenylmethane diisocyanate (MDI)	Methylene bisphenyl isocyanate	0.005 ppm / 0.05 mg/m3	Not Available	0.020 (10-minute) ppm / 0.2 (10-minute) mg/m3	Not Available
US ACGIH Threshold Limit Values (TLV)	4,4'-diphenylmethane diisocyanate (MDI)	Methylene bisphenyl isocyanate	0.005 ppm	Not Available	Not Available	Not Available

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Ingredient	TEEL-1	TEEL-2	TEEL-3
xylene	Not Available	Not Available	Not Available
ethylbenzene	Not Available	Not Available	Not Available
diphenylmethane diisocyanate (MDI) mixed isomers	29 mg/m3	40 mg/m3	240 mg/m3
4,4'-diphenylmethane diisocyanate (MDI)	0.45 mg/m3	Not Available	Not Available
4,4'-diphenylmethane diisocyanate (MDI)	29 mg/m3	40 mg/m3	240 mg/m3

Ingredient	Original IDLH	Revised IDLH
xylene	900 ppm	Not Available
ethylbenzene	800 ppm	Not Available
diphenylmethane diisocyanate (MDI) mixed isomers	Not Available	Not Available
4,4'-diphenylmethane diisocyanate (MDI)	75 mg/m3	Not Available
Latent aliphatic polyamine	Not Available	Not Available

Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit			
diphenylmethane diisocyanate (MDI) mixed isomers	Е	≤ 0.1 ppm			
Latent aliphatic polyamine	D	> 0.1 to ≤ 1 ppm			
Notes:	, , , , , , , , , , , , , , , , , , , ,	sure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the comes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a concentrations that are expected to protect worker health.			

Exposure controls

Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

CARE: Use of a quantity of this material in confined space or poorly ventilated area, where rapid build up of concentrated atmosphere may occur, could require increased ventilation and/or protective gear

Personal protection











NOTE:

- ► Safety glasses with side shields.
- Chemical goggles.

Skin protection

Eye and face protection

See Hand protection below

Hands/feet protection

• The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical 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.

- Isocyanate resistant materials include Teflon, Viton, nitrile rubber and some PVA gloves.
- Protective gloves and overalls should be worn as specified in the appropriate national standard.

Body protection

See Other protection below

Other protection

- Overalls.
- Eyewash unit.

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Liquid			
Physical state	Liquid	Relative density (Water = 1)	1.00-1.10	
Physical state	Liquid	Relative defisity (water = 1)	1.00-1.10	
Odor	Not Available	Partition coefficient n-octanol / water	Not Available	
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available	
pH (as supplied)	Not Available	Decomposition temperature	Not Available	

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Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	154	Molecular weight (g/mol)	Not Available
Flash point (°C)	27		
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Flammable.	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	305

SECTION 10 Stability and reactivity

Reactivity	See section 7
Chemical stability Lunstable in the presence of incompatible materials. Product is considered stable.	
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 Toxicological information

nformation on toxicological e	ffects
Inhaled	The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo. Inhalation hazard is increased at higher temperatures. Inhalation of high concentrations of gas/vapour causes lung irritation with coughing and nausea, central nervous depression with headache and dizziness, slowing of reflexes, fatigue and inco-ordination. Central nervous system (CNS) depression may include general discomfort, symptoms of giddiness, headache, dizziness, nausea, anaesthetic effects, slowed reaction time, slurred speech and may progress to unconsciousness. Serious poisonings may result in respiratory depression and may be fatal. The acute toxicity of inhaled alkylbenzene is best described by central nervous system depression. These compounds may also act as general anaesthetics. Headache, fatigue, tiredness, irritability and digestive disturbances (nausea, loss of appetite and bloating) are the most common symptoms of xylene overexposure. Injury to the heart, liver, kidneys and nervous system has also been noted amongst workers. Xylene is a central nervous system depressant
Ingestion	The material is not thought to produce adverse health effects following ingestion (as classified by EC Directives using animal models). Nevertheless, adverse systemic effects have been produced following exposure of animals by at least one other route and good hygiene practice requires that exposure be kept to a minimum. Swallowing of the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis; serious consequences may result. (ICSC13733) Accidental ingestion of the material may be damaging to the health of the individual. Not a likely route of entry into the body in commercial or industrial environments. The liquid may produce considerable gastrointestinal discomfort and be harmful or toxic if swallowed.
Skin Contact	The material may accentuate any pre-existing dermatitis condition Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected. Skin contact with the material may be harmful; systemic effects may result following absorption. The material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterised by redness, swelling and blistering.
Еуе	There is evidence that material may produce eye irritation in some persons and produce eye damage 24 hours or more after instillation. Severe inflammation may be expected with pain. The liquid produces a high level of eye discomfort and is capable of causing pain and severe conjunctivitis. Corneal injury may develop, with possible permanent impairment of vision, if not promptly and adequately treated.
Chronic	There has been concern that this material can cause cancer or mutations, but there is not enough data to make an assessment. Inhaling this product is more likely to cause a sensitisation reaction in some persons compared to the general population. Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population. This material can cause serious damage if one is exposed to it for long periods. It can be assumed that it contains a substance which can produce severe defects. Ample evidence exists from experimentation that reduced human fertility is directly caused by exposure to the material.

Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

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Persons with a history of asthma or other respiratory problems or are known to be sensitised, should not be engaged in any work involving the

handling of isocyanates.

The chemistry of reaction of isocyanates, as evidenced by MDI, in biological milieu is such that in the event of a true exposure of small MDI

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The chemistry of reaction and will continue along the digestive and the chemistry of the properties o doses to the mouth, reactions will commence at once with biological macromolecules in the buccal region and will continue along the digestive tract prior to reaching the stomach.

Women exposed to xylene in the first 3 months of pregnancy showed a slightly increased risk of miscarriage and birth defects. Evaluation of workers chronically exposed to xylene has demonstrated lack of genetic toxicity.

	TOXICITY		IDDI	IRRITATION		
J-B Weld Herculiner Roll-on - Black	Not Available					
	TVOT AVAIIABLE					
	TOVIOTA					
	763		IRRITATION Eye (human): 200 ppm irritant			
	Dermal (rabbit) LD50: >1700 mg/kg ^[2]					
wylana	Inhalation(Rat) LC50; 5922 ppm4h ^[1]			bit): 5 mg/24h SEVERE		
xylene	Oral(Mouse) LD50; 1548 mg/kg ^[2]		• •	sbit): 87 mg mild		
				verse effect observed (irritating)[1]		
		Skin (rabbit):500 mg/24h moderate		verse effect observed (irritating) ^[1]		
			OKIII. au	verse effect observed (initiating).		
	TOXICITY	IDDI	TATION			
	Dermal (rabbit) LD50: >5000 mg/kg ^[2]			500 mg - SEVERE		
atherille annua a		-		500 mg - SEVERE		
ethylbenzene	Inhalation(Rat) LC50; 17.2 mg/l4h ^[2]			rse effect observed (not irritating)[1]		
	Oral(Rat) LD50; ~3523 mg/kg ^[2]		• •	15 mg/24h mild		
		Skin	. no adve	rise effect observed (not irritating) ^[1]		
	TOXICITY			IRRITATION		
diphenylmethane diisocyanate (MDI) mixed isomers	Dermal (rabbit) LD50: >6200 mg/kg ^[2]			Dermal Sensitiser *		
(MDI) IIIXCU ISOINCIS	Inhalation(Rat) LC50; 0.369 mg/l4h ^[2]			Skin (rabbit): 500 mg /24 hours		
	Oral(Rat) LD50; >2000 mg/kg ^[2]					
	TOXICITY					
4,4'-diphenylmethane	Dermal (rabbit) LD50: >6200 mg/kg ^[2] Dermal Sensitis					
diisocyanate (MDI)			erse effect observed (not irritating) ^[1]			
				500 mg /24 hours		
		Skin: adverse effect observed (irritating) ^[1]				
	TOXICITY			IRRITATION		
Latent aliphatic polyamine	dermal (rat) LD50: >5000 mg/kg ^[1]		,	Skin (rabbit) 4h: CORROSIVE		
	Oral(Rat) LD50; 4150 mg/kg ^[1]	0; 4150 mg/kgt ¹ 1				
Legend:				2.* Value obtained from manufacturer's SDS. Unless otherwise		
	specified data extracted from RTECS - Register of To.	XIC Effect of che	micai Sui	ostances		
J-B Weld Herculiner Roll-on - Black	Data demonstrate that during inhalation exposure, are cessation of exposure, the level of aromatic hydrocarb			ergo substantial partitioning into adipose tissues. Following		
XYLENE	Reproductive effector in rats	one in body rais	o rupiui,	3301111301		
	· · · · · · · · · · · · · · · · · · ·	xicity, specific de	evelopme	ental abnormalities (musculoskeletal system) recorded.		
ETHYLBENZENE	Ethylbenzene is readily absorbed when inhaled, swallowed or in contact with the skin. It is distributed throughout the body, and passed out through urine.					
	WARNING: This substance has been classified by the	e IARC as Group	o 2B: Pos	ssibly Carcinogenic to Humans.		
diphenylmethane diisocyanate (MDI) mixed isomers	No significant acute toxicological data identified in liter	rature search.				
4,4'-DIPHENYLMETHANE DIISOCYANATE (MDI)	Inhalation (human) TCLo: 0.13 ppm/30 mins Eye (rabi	bit): 0.10 mg mc	oderate			
LATENT ALIPHATIC POLYAMINE	The material may be irritating to the eye, with prolonge conjunctivitis. The material may produce respiratory tract irritation, a		_	nmation. Repeated or prolonged exposure to irritants may produce		
				goraanig raadood lulig lulionolii.		

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J-B Weld Herculiner Roll-on -Black & diphenylmethane Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition diisocyanate (MDI) mixed known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. isomers & The following information refers to contact allergens as a group and may not be specific to this product. 4,4'-DIPHENYLMETHANE Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact DIISOCYANATE (MDI) & eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. LATENT ALIPHATIC **POLYAMINE** J-B Weld Herculiner Roll-on -Allergic reactions involving the respiratory tract are usually due to interactions between IqE antibodies and allergens and occur rapidly. Allergic Black & diphenylmethane potential of the allergen and period of exposure often determine the severity of symptoms. diisocyanate (MDI) mixed Attention should be paid to atopic diathesis, characterised by increased susceptibility to nasal inflammation, asthma and eczema. Exogenous allergic alveolitis is induced essentially by allergen specific immune-complexes of the IgG type; cell-mediated reactions (T 4,4'-DIPHENYLMETHANE lymphocytes) may be involved. Such allergy is of the delayed type with onset up to four hours following exposure. DIISOCYANATE (MDI) The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may **XYLENE & ETHYLBENZENE** produce conjunctivitis **XYLENE & ETHYLBENZENE &** The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of LATENT ALIPHATIC vesicles, scaling and thickening of the skin. **POLYAMINE** XYLENE & diphenylmethane diisocyanate (MDI) mixed The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans. isomers & 4,4'-DIPHENYLMETHANE Evidence of carcinogenicity may be inadequate or limited in animal testing. DIISOCYANATE (MDI)

diphenylmethane diisocyanate (MDI) mixed isomers & 4,4'-DIPHENYLMETHANE DIISOCYANATE (MDI) The material may produce moderate eye irritation leading to inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis

conjunctivitis.

Aromatic and aliphatic diisocyanates may cause airway toxicity and skin sensitization. Monomers and prepolymers exhibit similar respiratory

effect.

Isocyanate vapours are irritating to the airways and can cause their inflammation, with wheezing, gasping, severe distress, even loss of consciousness and fluid in the lungs. Nervous system symptoms that may occur include headache, sleep disturbance, euphoria, inco-ordination, anxiety, depression and paranoia.

Acute Toxicity	✓	Carcinogenicity	✓
Skin Irritation/Corrosion	✓	Reproductivity	×
Serious Eye Damage/Irritation	✓	STOT - Single Exposure	✓
Respiratory or Skin sensitisation	✓	STOT - Repeated Exposure	✓
Mutagenicity	×	Aspiration Hazard	×

Legend:

🗶 – Data either not available or does not fill the criteria for classification

Value

>1640mg/l

🎺 – Data available to make classification

SECTION 12 Ecological information

Endpoint

EC50

4,4'-diphenylmethane

diisocyanate (MDI)

Test Duration (hr)

72h

Toxicity

J-B Weld Herculiner Roll-on -	Endpoint Test Duration (hr) Not Available Not Available			Species	Value		Source	
Black				Not Available Not Available		Not Available		
	Endpoint	Test Duration (hr)		Species		Value	Value	
	EC50	72h		Algae or other aquatic plants		4.6mg	/I	2
xylene	LC50	96h	1	Fish		2.6mg	/I	2
	EC50	48h	(Crustacea		1.8mg	/I	2
	NOEC(ECx)	73h		Algae or other aquatic plants		0.44m	g/l	2
	Endpoint	Test Duration (hr)	Species Va		Value	lue		Source
	EC50	72h	Algae or other aquatic plants		4.6m	4.6mg/l		1
- th	LC50	96h	Fish		3.381	3.381-4.075mg/L		4
ethylbenzene	EC50	48h	Crustacea		1.37-	1.37-4.4mg/l		4
	NOEC(ECx)	720h	Fish		0.381	0.381mg/L		4
	EC50	96h	Algae	or other aquatic plants	3.6m	g/l		2
	Endpoint	Test Duration (hr)	Sp	ecies		Value		Source
iphenylmethane diisocyanate	LC50	96h	Fis	sh		>=1000mg	g/l	1
(MDI) mixed isomers	NOEC(ECx)	504h	Cr	ustacea		>=10mg/l		1
	EC50	96h	Alg	gae or other aquatic plants		3230mg/l		1

Species

Algae or other aquatic plants

Source

2

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LC50	96h	Fish	>1000mg/l	2
NOEC(ECx)	504h	Crustacea	>=10mg/l	2
BCF	672h	Fish	61-150	7

Latent aliphatic polyamine	Endpoint	Test Duration (hr)	Species	Value	Source
	NOEC(ECx)	48h	Crustacea	7.5mg/l	2
	EC50	72h	Algae or other aquatic plants	9.6mg/l	2
	LC50	96h	Fish	>53.7mg/l	2
	EC50	48h	Crustacea	14.7mg/l	2

Legend:

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
xylene	HIGH (Half-life = 360 days)	LOW (Half-life = 1.83 days)
ethylbenzene	HIGH (Half-life = 228 days)	LOW (Half-life = 3.57 days)
4,4'-diphenylmethane diisocyanate (MDI)	LOW (Half-life = 1 days)	LOW (Half-life = 0.24 days)

Bioaccumulative potential

Ingredient	Bioaccumulation
xylene	MEDIUM (BCF = 740)
ethylbenzene	LOW (BCF = 79.43)
diphenylmethane diisocyanate (MDI) mixed isomers	LOW (BCF = 15)
4,4'-diphenylmethane diisocyanate (MDI)	LOW (BCF = 15)

Mobility in soil

• • • • • • • • • • • • • • • • • • • •	
Ingredient	Mobility
ethylbenzene	LOW (KOC = 517.8)
4,4'-diphenylmethane diisocyanate (MDI)	LOW (KOC = 376200)

SECTION 13 Disposal considerations

Waste treatment methods

- ► Containers may still present a chemical hazard/ danger when empty.
- Return to supplier for reuse/ recycling if possible.

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area.

- Product / Packaging disposal

 ▶ DO NOT allow wash water from cleaning or process equipment to enter drains.
 - lacktriangledown It may be necessary to collect all wash water for treatment before disposal.
 - DO NOT recycle spilled material
 - ▶ Consult State Land Waste Management Authority for disposal.

SECTION 14 Transport information

Labels Required



Note THIS ITEM, AS PACKAGED BY J-B WELD, SHIPS AS A LIMITED QUANTITY

Land transport (DOT)

Land transport (BO1)		
UN number	1263	
UN proper shipping name	Paint	

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Transport hazard class(es)	Class 3		
	Subrisk Not Applicable		
Packing group	III		
Environmental hazard	Not Applicable		
	Hazard identification (Kemler)	Not Applicable	
	Classification code	Not Applicable	
Special precautions for user	Hazard Label	3	
	Special provisions	367, B1, B52, B131, IB3, T2, TP1, TP29	
	Limited quantity	Not Applicable	
	Tunnel Restriction Code	Not Applicable	

Air transport (ICAO-IATA / DGR)

ii transport (ICAO-IATA / DGF	Í			
UN number	1263			
UN proper shipping name	Paint			
	ICAO/IATA Class	3		
Transport hazard class(es)	ICAO / IATA Subrisk	Not Applicable		
	ERG Code	3L		
Packing group	III			
Environmental hazard	Not Applicable			
	Special provisions		A3 A72 A192	
	Cargo Only Packing Instructions		366	
	Cargo Only Maximum Qty / Pack		220 L	
Special precautions for user	Passenger and Cargo Packing Instructions		355	
	Passenger and Cargo Maximum Qty / Pack		60 L	
	Passenger and Cargo	Limited Quantity Packing Instructions	Y344	

Sea transport (IMDG-Code / GGVSee)

UN number	1263			
UN proper shipping name	PAINT	PAINT		
Transport hazard class(es)	IMDG Class 3 IMDG Subrisk N	Not Applicable		
Packing group				
Environmental hazard	Not Applicable			
Special precautions for user	EMS Number Special provisions Limited Quantities	F-E , S-E 163 223 367 955 5 L		

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
xylene	Not Available
ethylbenzene	Not Available
diphenylmethane diisocyanate (MDI) mixed isomers	Not Available
4,4'-diphenylmethane diisocyanate (MDI)	Not Available
Latent aliphatic polyamine	Not Available

Transport in bulk in accordance with the ICG Code

•	
Product name	Ship Type
xylene	Not Available
ethylbenzene	Not Available
diphenylmethane diisocyanate (MDI) mixed isomers	Not Available

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 Product name
 Ship Type

 4,4'-diphenylmethane diisocyanate (MDI)
 Not Available

 Latent aliphatic polyamine
 Not Available

SECTION 15 Regulatory information

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

xylene is found on the following regulatory lists

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

US - California Hazardous Air Pollutants Identified as Toxic Air Contaminants

US ACGIH Threshold Limit Values (TLV)

US ACGIH Threshold Limit Values (TLV) - Carcinogens

US ACGIH Threshold Limit Values (TLV) - Notice of Intended Changes

US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)

US Clean Air Act - Hazardous Air Pollutants

US CWA (Clean Water Act) - List of Hazardous Substances

US DOE Temporary Emergency Exposure Limits (TEELs)

US EPA Integrated Risk Information System (IRIS)

US EPCRA Section 313 Chemical List

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US TSCA Chemical Substance Inventory - Interim List of Active Substances

ethylbenzene is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 2B: Possibly carcinogenic to humans

US - California Hazardous Air Pollutants Identified as Toxic Air Contaminants

US - California Proposition 65 - Carcinogens

US - California Proposition 65 - No Significant Risk Levels (NSRLs) for Carcinogens

US - California Safe Drinking Water and Toxic Enforcement Act of 1986 - Proposition 65 List

US ACGIH Threshold Limit Values (TLV)

US ACGIH Threshold Limit Values (TLV) - Carcinogens

US ACGIH Threshold Limit Values (TLV) - Notice of Intended Changes

US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)

US Clean Air Act - Hazardous Air Pollutants

US CWA (Clean Water Act) - List of Hazardous Substances

US CWA (Clean Water Act) - Priority Pollutants

US CWA (Clean Water Act) - Toxic Pollutants

US DOE Temporary Emergency Exposure Limits (TEELs)

US EPA Integrated Risk Information System (IRIS)

US EPCRA Section 313 Chemical List

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory US TSCA Chemical Substance Inventory - Interim List of Active Substances

diphenylmethane diisocyanate (MDI) mixed isomers is found on the following regulatory lists

US DOE Temporary Emergency Exposure Limits (TEELs)

US EPCRA Section 313 Chemical List

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
US TSCA Chemical Substance Inventory - Interim List of Active Substances

4,4'-diphenylmethane diisocyanate (MDI) is found on the following regulatory lists

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

US - California Hazardous Air Pollutants Identified as Toxic Air Contaminants

US ACGIH Threshold Limit Values (TLV)

US Clean Air Act - Hazardous Air Pollutants

US DOE Temporary Emergency Exposure Limits (TEELs)

US EPA Integrated Risk Information System (IRIS)

US EPCRA Section 313 Chemical List

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1
US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US TSCA Chemical Substance Inventory - Interim List of Active Substances

US TSCA New Chemical Exposure Limits (NCEL)

Latent aliphatic polyamine is found on the following regulatory lists

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US TSCA Chemical Substance Inventory - Interim List of Active Substances

Federal Regulations

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 311/312 hazard categories

Flammable (Gases, Aerosols, Liquids, or Solids)	Yes
Gas under pressure	No
Explosive	No
Self-heating	No
Pyrophoric (Liquid or Solid)	No
Pyrophoric Gas	No
Corrosive to metal	No
Oxidizer (Liquid, Solid or Gas)	No
Organic Peroxide	No
Self-reactive Self-reactive	No
In contact with water emits flammable gas	No
Combustible Dust	No
Carcinogenicity	Yes
Acute toxicity (any route of exposure)	Yes
Reproductive toxicity	No
Skin Corrosion or Irritation	Yes
Respiratory or Skin Sensitization	Yes

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Serious eye damage or eye irritation	Yes
Specific target organ toxicity (single or repeated exposure)	
Aspiration Hazard	No
Germ cell mutagenicity	No
Simple Asphyxiant	No
Hazards Not Otherwise Classified	No

US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4)

Name	Reportable Quantity in Pounds (lb)	Reportable Quantity in kg
xylene	100	45.4
ethylbenzene	1000	454
4,4'-diphenylmethane diisocyanate (MDI)	5000	2270

State Regulations

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm

US - California Proposition 65 - Carcinogens: Listed substance

ethylbenzene

National Inventory Status

rtational involtory ctatae		
National Inventory	Status	
Australia - AIIC / Australia Non-Industrial Use	Yes	
Canada - DSL	Yes	
Canada - NDSL	No (xylene; ethylbenzene; diphenylmethane diisocyanate (MDI) mixed isomers; 4,4'-diphenylmethane diisocyanate (MDI); Latent aliphatic polyamine)	
China - IECSC	Yes	
Europe - EINEC / ELINCS / NLP	Yes	
Japan - ENCS	Yes	
Korea - KECI	Yes	
New Zealand - NZIoC	Yes	
Philippines - PICCS	Yes	
USA - TSCA	Yes	
Taiwan - TCSI	Yes	
Mexico - INSQ	No (Latent aliphatic polyamine)	
Vietnam - NCI	Yes	
Russia - FBEPH	No (Latent aliphatic polyamine)	
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)	

SECTION 16 Other information

Revision Date	01/06/2021
Initial Date	05/07/2021

SDS Version Summary

Version	Date of Update	Sections Updated
1.12.3.1	05/10/2021	Regulation Change
1.12.4.1	05/24/2021	Regulation Change
1.12.4.2	05/30/2021	Template Change
1.12.4.2	05/31/2021	Classification

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings.