

SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION

MANUFACTURER: Diamapro Systems, Inc.
 ADDRESS : 325 West Front Street
 Erie, PA 16507

EMERGENCY PHONE: 1-800-424-9300
 INFORMATION PHONE: 1-800-622-2048
 NAME OF PREPARER: Safety Director

PRODUCT NAME: Diamapro Diama-Joint 2.0 A ISO
PRODUCT CODE: DPDJ2.0A

SECTION 2 - HAZARDS IDENTIFICATION

Classification of the substance or mixture:



GHS08 Health hazard

Resp. Sens 1	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Carc. 2	H351 Suspected of causing cancer.
STOT RE 2	H373 May cause damage to organs through prolonged or repeated exposure.



GHS07

Acute Tox. 4	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	H335 May cause respiratory irritation.

Label elements:

GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms:



GHS07



GHS08

Signal word: Warning

Hazard-determining components of labeling:

Isocyanates, reaction product of polyol with methylenediphenyl diisocyanate
 4,4'-methylenediphenyl diisocyanate
 Diphenylmethane Diisocyanate (MDI) Homopolymer

Hazard statements:

H302 Harmful if swallowed.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H317 May cause an allergic skin reaction.
 H351 Suspected of causing cancer.
 H335 May cause respiratory irritation.
 H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements:

P260 Do not breathe dust/fume/gas/mist/vapors/spray.
 P284 [In case of inadequate ventilation] wear respiratory protection.
 P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
 P271 Use only outdoors or in a well-ventilated area.

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P280 Wear protective gloves.
 P280 Wear eye protection / face protection.
 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.
 P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
 P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
 P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P363 Wash contaminated clothing before reuse.
 P304+P341 If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
 P308+P313 IF exposed or concerned: Get medical advice/attention.
 P332+P313 If skin irritation occurs: Get medical advice/attention.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P337+P313 If eye irritation persists: Get medical advice/attention.
 P314 Get medical advice/attention if you feel unwell.
 P330 Rinse mouth.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P405 Store locked up.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Unknown acute toxicity:

5 % of the mixture consists of component(s) of unknown toxicity.

Classification system:

NFPA ratings (scale 0 - 4)

Health = 1

Fire = 0

Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = *1

Fire = 0

Reactivity = 0

Hazard(s) not otherwise classified (HNOC): None known

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

Non-hazardous components:

CAS: 102-76-1	Triacetin	5-10%
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RTECS: AK 3675000

Chemical characterization: Mixtures

Description: Mixture: consisting of the following components.

Dangerous Components:

9048-57-1	Isocyanates, reaction product of polyol with methylenediphenyl diisocyanate Resp. Sens. 1, H334; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335	30-60%
	4,4'-methylenediphenyl diisocyanate Resp. Sens. 1, H334; STOT RE 2, H373; d-□ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	30-60%
25686-28-6	Diphenylmethane Diisocyanate (MDI) Homopolymer Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335	3-7%

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SECTION 4 - FIRST AID MEASURES

Description of first aid measures:**General information:**

Symptoms of poisoning may occur after exposure to dust, fumes or particulates; seek medical attention if feeling unwell.

After inhalation:

Supply fresh air. If required, provide artificial respiration. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation occurs, consult a doctor.

After eye contact:

Rinse opened eye for at least 15 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.

SECTION 5 - FIRE AND EXPLOSION HAZARD DATA

Extinguishing media:**Suitable extinguishing agents:**

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards arising from the substance or mixture:

Thermal decomposition will produce toxic oxides of carbon.

Advice for firefighters:**Protective equipment:**

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Keep unprotected persons away.

Environmental precautions: Do not allow product to reach sewage system or any water course.

Methods and material for containment and cleaning up:

Ensure adequate ventilation.

Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

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.

SECTION 7 - HANDLING AND STORAGE

Handling**Precautions for safe handling:**

Avoid contact with skin, eyes and clothing

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Information about protection against explosions and fires: No special measures required.

Conditions for safe storage, including any incompatibilities:**Storage**

Requirements to be met by storerooms and receptacles: Store in a cool, dry place.

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.

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===== SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION =====

Additional information about design of technical systems: No further data; see section 7.

Control parameters:

Components with occupational exposure limits:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the remaining constituent has no known exposure limits.

4,4'-methylenediphenyl diisocyanate

PEL Ceiling limit value: 0.2 mg/m³, 0.02 ppm

REL Long-term value: 0.05 mg/m³, 0.005 ppm
Ceiling limit value: 0.2* mg/m³, 0.02* ppm
*10-min

TLV Long-term value: 0.051 mg/m³, 0.005 ppm

25686-28-6 Diphenylmethane Diisocyanate (MDI) Homopolymer

TWA Short-term value: 0.02 mg/m³

Additional information: The lists that were valid during the creation of this SDS were used as basis.

Exposure controls:

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing and wash before reuse.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Breathing equipment:

NIOSH/OSHA or EN approved respiratory protection is recommended for use in airborne concentrations exceeding exposure limits.

Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Select glove material based on penetration times, rates of diffusion and degradation.

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 cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material:

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

Eye protection:

Tightly sealed goggles

===== SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES =====

Information on basic physical and chemical properties

General Information

Appearance:

Form:	Liquid
Color:	Light yellow
Odor:	Not determined
Odor threshold:	Not determined.

Change in condition

Melting point/Melting range:	Not determined.
Boiling point/Boiling range:	208 °C (406 °F)
Flash point:	None

Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	410 °C (770 °F)
Decomposition temperature:	Not determined.
Auto igniting:	Product is not self-igniting.

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Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower: 0.4 Vol %	
Upper: 0.0 Vol %	
Vapor pressure:	Not determined.
Density @ 20 °C (68 °F):	1.02 g/cm ³ (8.512 lbs/gal)
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/water):	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	0.0 %
Solids content:	40.0 %
Other information:	No further relevant information available.

===== SECTION 10 - STABILITY AND REACTIVITY DATA =====

Reactivity: No further relevant information available.
Chemical stability: Stable under normal conditions.
Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
Possibility of hazardous reactions: No dangerous reactions known.
Conditions to avoid: No further relevant information available.
Incompatible materials: Strong oxidizers; Strong acids; Strong bases
Hazardous decomposition products: Carbon monoxide

===== SECTION 11 - TOXICOLOGICAL INFORMATION =====

Information on toxicological effects:**Acute toxicity:****LD/LC50 values that are relevant for classification:****4,4'-methylenediphenyl diisocyanate**

Oral	LD50	2200 mg/kg (mouse)
Dermal	LD50	>9400 mg/kg (rabbit)
Inhalative	LC50/4 h	>1000 mg/l (Trout)

Primary irritant effect:**On the skin:**

Irritant to skin and mucous membranes.
 May cause an allergic skin reaction.

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):**

4,4'-methylenediphenyl diisocyanate 3

NTP (National Toxicology Program):

None of the ingredients are listed.

OSHA-CA (Occupational Safety & Health Administration)

None of the ingredients are listed

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===== SECTION 12 - ECOLOGICAL INFORMATION =====

Toxicity:**Aquatic toxicity:****4,4'-methylenediphenyl diisocyanate**

EC50 >1000 mg/l (daphnia)

Persistence and degradability: No further relevant information available.**Behavior in environmental systems:****Bioaccumulative potential:** No further relevant information available.**Mobility in soil:** No further relevant information available.**Additional ecological information:****General notes:** Not known to be hazardous to water.**Results of PBT and vPvB assessment:****PBT:** Not applicable.**vPvB:** Not applicable.**Other adverse effects:** No further relevant information available.

===== SECTION 13 - DISPOSAL CONSIDERATIONS =====

Waste treatment methods:**Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Observe all federal, state and local environmental regulations when disposing of this material.

Uncleaned packagings**Recommendation:** Disposal must be made according to official regulations.

===== SECTION 14 - TRANSPORT INFORMATION =====

UN-Number:**DOT, ADR, ADN, IMDG, IATA** Non-Regulated Material**UN proper shipping name:****DOT, ADR, ADN, IMDG, IATA** Non-Regulated Material**Transport hazard class(es):****DOT, ADR, ADN, IMDG, IATA** Non-Regulated Material**Class:****Packing group:** Non-Regulated Material**DOT, ADR, IMDG, IATA** Non-Regulated Material**Environmental hazards:** Not applicable.**Special precautions for user:** Not applicable.**Transport in bulk according to Annex II****Of MARPOL73/78 and the IBC Code:** Not applicable.**UN "Model Regulation":** Non-Regulated Material

===== SECTION 15 - REGULATORY INFORMATION =====

Safety, health and environmental regulations/legislation specific for the substance or mixture:**SARA (Superfund Amendments and Reauthorization):****Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

4,4'-methylenediphenyl diisocyanate

TSCA (Toxic Substances Control Act):

All ingredients are listed or exempt from listing.

California Proposition 65:**Chemicals known to cause cancer:**

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

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None of the ingredients are listed.

New Jersey Right-to-Know List:

4,4'-methylenediphenyl diisocyanate

New Jersey Special Hazardous Substance List:

None of the ingredients are listed.

Pennsylvania Right-to-Know List:

4,4'-methylenediphenyl diisocyanate

Pennsylvania Special Hazardous Substance List:

4,4'-methylenediphenyl diisocyanate E

Carcinogenic categories:

EPA (Environmental Protection Agency):

4,4'-methylenediphenyl diisocyanate D, CBD

TLV (Threshold Limit Value established by ACGIH):

None of the ingredients are listed.

NIOSH-Ca (National Institute for Occupational Safety and Health):

None of the ingredients are listed.

GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms:



GHS07



GHS08

Signal word: Danger

Hazard-determining components of labeling:

Isocyanates, reaction product of polyol with methylenediphenyl diisocyanate

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P280 Wear protective gloves.

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P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P363 Wash contaminated clothing before reuse.

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P304+P341 If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.

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P332+P313 If skin irritation occurs: Get medical advice/attention.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P314 Get medical advice/attention if you feel unwell.

P330 Rinse mouth.

P302+P352 IF ON SKIN: Wash with plenty of water.

P362+P364 Take off contaminated clothing and wash it before reuse.

P405 Store locked up.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

National regulations:

The product is subject to be classified according with the latest version of the regulations on hazardous substances.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

===== SECTION 16 - OTHER INFORMATION =====

Date of preparation / last revision: 03/25/2025 / 1

Abbreviations and acronyms:

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2: Serious eye damage/eye 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

Carc. 2: Carcinogenicity, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

Prepared By: S. Thome

Revision Date: 4/4/2025

The information herein is based on data considered to be accurate. However, no warranty is expressed or implied regarding the accuracy of these data or results. Also this shall not establish a legally valid contractual relationship.

Vendor assumes no responsibility for injury to vendee or third person proximately caused if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in use of the material.

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Our products are intended for sale to industrial and commercial customers. We encourage customers to inspect and test our products before use and to satisfy themselves as to suitability for their specific applications.

Warranty: The manufacturer warrants that products sold comply with specifications as represented and will perform satisfactorily if used according to the directions, or the manufacturer will refund or replace any unused portion thereof, for a period of one year from the date of manufacture. The manufacturer does not make any other warranty, or assume responsibility of any kind, expressed or implied regarding the effect or result of the products use; and assumes no responsibility of injury to vendee or third parties proximately caused by the material if reasonable safety procedures are not adhered to.