

# MasterWeld 948

 Version
 Revision Date:
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 1.1
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#### **SECTION 1. IDENTIFICATION**

Product name : MasterWeld 948

Product code : 00000000055516216 00000000055516216

Manufacturer or supplier's details

Company name of supplier : Master Builders-Construction Systems

US, LLC

Address : 23700 CHAGRIN BLVD

Beachwood OH 44122

Emergency telephone : ChemTel: +1-813-248-0585 USA: +1-800-255-3924 Contract

Number MIS9240420

Recommended use of the chemical and restrictions on use

Recommended use : Product for construction chemicals

Restrictions on use : Reserved for industrial and professional use.

### **SECTION 2. HAZARDS IDENTIFICATION**

GHS classification in accordance with 29 CFR 1910.1200

Acute toxicity (Inhalation) : Category 4

Skin corrosion/irritation : Category 2

Serious eye damage/eye

irritation

Category 2A

Respiratory sensitization : Category 1

Skin sensitization : Category 1

Specific target organ toxicity

- single exposure

Category 3 (respiratory tract irritation)

Specific target organ toxicity

- repeated exposure (Inhala-

tion)

Category 2 (Nasal cavity)

## **GHS** label elements

Hazard pictograms :





Signal Word : Danger

Hazard Statements : H319 Causes serious eye irritation.

H315 Causes skin irritation. H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing diffi-

culties if inhaled.

H317 May cause an allergic skin reaction. H335 May cause respiratory irritation.

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H373 May cause damage to organs (Nasal cavity) through prolonged or repeated exposure.

**Precautionary Statements** 

### Prevention:

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P271 Use only outdoors or in a well-ventilated area.

P260 Do not breathe dust or mist.

P284 In case of inadequate ventilation wear respiratory protection

P272 Contaminated work clothing should not be allowed out of the workplace.

P264 Wash face, hands and any exposed skin thoroughly after handling.

## Response:

P312 Call a POISON CENTER/ doctor/ .?/ if you feel unwell. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

P314 Get medical advice/ attention if you feel unwell. P302 + P352 IF ON SKIN: Wash with plenty of water.

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

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

P362 + P364 Take off contaminated clothing and wash it before

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

## Storage:

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

P405 Store locked up.

#### Disposal:

P501 Dispose of contents/container to appropriate hazardous waste collection point.

### Other hazards

CONTAINS ISOCYANATES. INHALATION OF ISOCYANATE MISTS OR VAPORS MAY CAUSE RESPIRATORY IRRITATION, BREATHLESSNESS, CHEST DISCOMFORT AND REDUCED PULMONARY FUNCTION. OVEREXPOSURE WELL ABOVE THE PEL MAY RESULT IN BRONCHITIS, BRONCHIAL SPASMS AND PULMONARY EDEMA. LONG-TERM EXPOSURE TO ISOCYANATES HAS BEEN REPORTED TO CAUSE LUNG DAMAGE, INCLUDING REDUCED LUNG FUNCTION WHICH MAY BE PERMANENT. ACUTE OR CHRONIC OVEREXPOSURE TO ISOCYANATES MAY CAUSE SENSITIZATION IN SOME INDIVIDUALS, RESULTING IN ALLERGIC RESPIRATORY REACTIONS INCLUDING WHEEZING, SHORTNESS OF BREATH AND DIFFICULTY BREATHING. ANIMAL TESTS INDICATE THAT SKIN CONTACT MAY PLAY A ROLE IN CAUSING RESPIRATORY SENSITIZATION.



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## **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical nature : Aromatic isocyanates

## Components

Chemical name	CAS-No.	Concentration (% w/w)
Diphenylmethane-4,4'-diisocyanate	101-68-8	>= 10 - < 15
(MDI)		
methylenediphenyl diisocyanate	26447-40-5	>= 3 - < 5
Polymethylene polyphenylisocyanate,	57636-09-6	>= 0.1 - < 0.2
polyethylene glycol polymer		
talc	14807-96-6	>= 25 - < 50
Distillates (petroleum), hydrotreated	64742-46-7	>= 1 - < 5
middle		

#### **SECTION 4. FIRST AID MEASURES**

General advice : First aid personnel should pay attention to their own safety.

Remove contaminated clothing.

If inhaled : If generated vapours are inhaled, move to fresh air.

Seek medical attention.

In case of skin contact : If skin irritation persists, call a physician.

If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist. Rinse mouth and then drink 200-300 ml of water.

If swallowed : Rinse mouth and then drink 200-300 ml of water.

DO NOT induce vomiting unless directed to do so by a physi-

cian or poison control center.

Most important symptoms and effects, both acute and

delayed

Causes skin irritation.

May cause an allergic skin reaction. Causes serious eye irritation.

Harmful if inhaled.

May cause allergy or asthma symptoms or breathing difficul-

ties if inhaled.

May cause respiratory irritation.

May cause damage to organs through prolonged or repeated

exposure.

Notes to physician : Treat symptomatically.

### **SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media : Foam

Water spray Dry powder

Carbon dioxide (CO2)

Unsuitable extinguishing

media

water jet

Hazardous combustion prod-

ucts

harmful vapours nitrogen oxides

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fumes/smoke carbon black

Further information : Standard procedure for chemical fires.

Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Special protective equipment:

for fire-fighters

Wear self-contained breathing apparatus for firefighting if nec-

essary.

### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protec: :

tive equipment and emergency procedures

Use personal protective equipment.

Avoid dust formation. Avoid breathing dust.

Ensure adequate ventilation.

Environmental precautions : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for

containment and cleaning up

Keep in suitable, closed containers for disposal.

#### **SECTION 7. HANDLING AND STORAGE**

Advice on protection against

fire and explosion

Avoid dust formation.

Provide appropriate exhaust ventilation at places where dust

is formed.

Advice on safe handling : Avoid formation of respirable particles.

Do not breathe vapors/dust.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national

regulations.

Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated

place. Observe label precautions.

Electrical installations / working materials must comply with

the technological safety standards.

Further information on stor-

age conditions

Keep only in the original container in a cool, well-ventilated

place.

Protect from direct sunlight. Store protected against freezing.



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Further information on stor-

age stability

: No decomposition if stored and applied as directed.

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of	Control parameters / Permissible	Basis
		exposure)	concentration	
Diphenylmethane-4,4'- diisocyanate (MDI)	101-68-8	TWA value	0.005 ppm	ACGIHTLV
		REL value	0.005 ppm 0.05 mg/m3	NIOSH
		Ceil_Time	0.020 ppm 0.2 mg/m3	NIOSH
		CLV	0.02 ppm 0.2 mg/m3	29 CFR 1910.1000 (Table Z-1)
		CLV	0.02 ppm 0.2 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		TWA	0.005 ppm	ACGIH
		С	0.02 ppm 0.2 mg/m3	OSHA Z-1
		С	0.02 ppm 0.2 mg/m3	OSHA P0
		TWA	0.005 ppm 0.05 mg/m3	NIOSH REL
		С	0.02 ppm 0.2 mg/m3	NIOSH REL
talc	14807-96-6	TWA value (Respirable fraction)	2 mg/m3	ACGIHTLV
		TWA (Dust)	20 Million parti- cles per cubic foot	OSHA Z-3
		TWA (respirable dust fraction)	2 mg/m3	OSHA P0
		TWA (Respirable)	2 mg/m3	NIOSH REL
		TWA	0.1 fibres per cubic centimeter	ACGIH
		TWA (Respirable particulate matter)	2 mg/m3	ACGIH
Distillates (petroleum), hydrotreated middle	64742-46-7	TWA value (Inhalable fraction)	5 mg/m3	ACGIHTLV
		STEL value (Mist)	10 mg/m3	NIOSH
		REL value (Mist)	5 mg/m3	NIOSH



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PEL (Mist)	5 mg/m3	29 CFR 1910.1000 (Table Z-1)
TWA value (Mist)	5 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
TWA (Mist)	5 mg/m3	OSHA Z-1
TWA (Mist)	5 mg/m3	OSHA P0
TWA (Mist)	5 mg/m3	NIOSH REL
ST (Mist)	10 mg/m3	NIOSH REL

**Engineering measures** : Ensure adequate ventilation.

Personal protective equipment

Respiratory protection : Wear appropriate certified respirator when exposure limits

may be exceeded.

Hand protection

Remarks : Chemical resistant protective gloves Manufacturer's direc-

tions for use should be observed because of great diversity of

types.

Eye protection : Safety glasses with side-shields.

Skin and body protection : Choose body protection according to the amount and con-

centration of the dangerous substance at the work place.

Protective measures : Avoid contact with the skin, eyes and clothing.

No special measures necessary if stored and handled cor-

rectly.

Handle in accordance with good building materials hygiene

and safety practice.

Wearing of closed work clothing is recommended.

Hygiene measures : When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : paste

Color : tan

Odor : oily, mild

Odor Threshold : not determined

pH : neutral to slightly alkaline

Melting point : Not applicable

Boiling point : No applicable information available.

Flash point :  $> 200.01 \, ^{\circ}\text{F} / > 93.34 \, ^{\circ}\text{C}$ 

Evaporation rate : No applicable information available.

Flammability (solid, gas) : not determined

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Upper explosion limit / Upper

flammability limit

10.2 %(V)

Lower explosion limit / Lower

flammability limit

1.6 %(V)

Vapor pressure No data available.

Relative vapor density Heavier than air.

Relative density 1.294 - 1.378

Density 10.8 - 11.5 lb/USg

Bulk density 1.26 g/cm3

Solubility(ies)

Water solubility slightly soluble

Solubility in other solvents No applicable information available.

Partition coefficient: n-

octanol/water

No data available.

Autoignition temperature No data available.

Decomposition temperature No decomposition if stored and handled as pre-

scribed/indicated.

Viscosity

Viscosity, dynamic Not applicable

Viscosity, kinematic Not applicable

Oxidizing properties Based on its structural properties the product is not classified

as oxidizing.

Self-heating substances No data available

Sublimation point No applicable information available.

Molecular weight No data available

## **SECTION 10. STABILITY AND REACTIVITY**

Reactivity No hazardous reactions if stored and handled as pre-

scribed/indicated.

The product is stable if stored and handled as pre-Chemical stability

scribed/indicated.

Possibility of hazardous reac-

tions

No decomposition if stored and applied as directed.

See SDS section 7 - Handling and storage. Conditions to avoid

Incompatible materials Strong acids

Strong bases

Strong oxidizing agents

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Strong reducing agents

Hazardous decomposition

No hazardous decomposition products if stored and handled

products as prescribed/indicated.

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

### **Acute toxicity**

Harmful if inhaled.

**Product:** 

Acute oral toxicity : Remarks: No applicable information available.

Acute inhalation toxicity : ATE: 3.11 mg/l

Remarks: Determined for mist

Acute dermal toxicity : Remarks: No applicable information available.

#### Skin corrosion/irritation

Causes skin irritation.

## Serious eye damage/eye irritation

Causes serious eye irritation.

### Respiratory or skin sensitization

### Skin sensitization

May cause an allergic skin reaction.

### Respiratory sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

## Germ cell mutagenicity

Not classified based on available information.

## Carcinogenicity

Not classified based on available information.

### Reproductive toxicity

Not classified based on available information.

## STOT-single exposure

May cause respiratory irritation.

## STOT-repeated exposure

May cause damage to organs (Nasal cavity) through prolonged or repeated exposure.

# **Aspiration toxicity**

Not classified based on available information.

### **Further information**

## **Product:**

Remarks Health injuries are not known or expected under normal use.

> The product has not been tested. The statements on toxicology have been derived from the properties of the individual

components.



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#### **SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity** 

No data available

Persistence and degradability

No data available

**Bioaccumulative potential** 

Components:

Diphenylmethane-4,4'-diisocyanate (MDI):

Partition coefficient: n- : log Pow: 4.51 (72 °F / 22 °C)

octanol/water pH: 7

Method: Partition coefficient (n-octanol/water), HPLC method.

GLP: no

methylenediphenyl diisocyanate:

Partition coefficient: n- : log Pow: 4.51 (72 °F / 22 °C)

octanol/water pH: 7

Method: Partition coefficient (n-octanol/water), HPLC method.

GLP: no

Mobility in soil
No data available

Other adverse effects

**Product:** 

Additional ecological infor-

mation

There is a high probability that the product is not acutely

harmful to aquatic organisms.

The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual

components.

# **SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods** 

Waste from residues : Dispose of in accordance with national, state and local regula-

tions.

Do not contaminate ponds, waterways or ditches with chemi-

cal or used container.

Do not discharge into drains/surface waters/groundwater.

Contaminated packaging : Contaminated packaging should be emptied as far as possible

and disposed of in the same manner as the sub-

stance/product.

## **SECTION 14. TRANSPORT INFORMATION**

# International Regulations

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### **UNRTDG**

Not regulated as a dangerous good

#### **IATA-DGR**

Not regulated as a dangerous good

### **IMDG-Code**

Not regulated as a dangerous good

## Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

## **Domestic regulation**

#### **49 CFR**

Not regulated as a dangerous good

### **SECTION 15. REGULATORY INFORMATION**

SARA 313 : The following components are subject to reporting levels es-

tablished by SARA Title III, Section 313:

Diphenylme- 101-68-8

thane-4,4'diisocyanate (MDI)

Isocyanic acid, 9016-87-9

polymethylenepolyphenylene ester (P-MDI)

# **US State Regulations**

## Pennsylvania Right To Know

Diphenylmethane-4,4'-diisocyanate (MDI) 101-68-8 talc 14807-96-6 Distillates (petroleum), hydrotreated middle 64742-46-7

# **New Jersey Right To Know**

Diphenylmethane-4,4'-diisocyanate (MDI)

Isocyanic acid, polymethylenepolyphenylene ester (P-MDI)

talc

methylenediphenyl diisocyanate

Distillates (petroleum), hydrotreated middle

101-68-8

9016-87-9

14807-96-6

26447-40-5

64742-46-7

### The ingredients of this product are reported in the following inventories:

DSL : All components of this product are on the Canadian DSL

TSCA : All chemical substances in this product are either listed as

active on the TSCA Inventory or are in compliance with a

TSCA Inventory exemption.

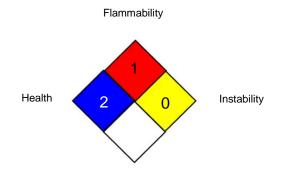
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#### **SECTION 16. OTHER INFORMATION**

### **Further information**

### NFPA 704:



Special hazard

### HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

#### Full text of other abbreviations

29 CFR 1910.1000 (Table Z- : OSHA - Table Z-1-A (29 CFR 1910.1000)

1-A)

29 CFR 1910.1000 (Table Z- : OSHA - Table Z-1 (Limits for Air Contaminants) 29 CFR

1) 1910.1000

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

ACGIHTLV : American Conference of Governmental Industrial Hygienists -

threshold limit values (US)

NIOSH : NIOSH Pocket Guide to Chemical Hazards (US)
NIOSH REL : USA. NIOSH Recommended Exposure Limits

OSHA P0 : USA. OSHA - TABLE Z-1 Limits for Air Contaminants -

1910.1000

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-

its for Air Contaminants

OSHA Z-3 : USA. Occupational Exposure Limits (OSHA) - Table Z-3 Min-

eral Dusts

29 CFR 1910.1000 (Table Z- : Ceiling Limit Value:

1-A) / CLV

29 CFR 1910.1000 (Table Z- : Time Weighted Average (TWA):

1-A) / TWA value

29 CFR 1910.1000 (Table Z- : Ceiling Limit Value:

1) / CLV

29 CFR 1910.1000 (Table Z- : Permissible exposure limit

1) / PEL

ACGIH / TWA : 8-hour, time-weighted average ACGIHTLV / TWA value : Time Weighted Average (TWA):

NIOSH / Ceil Time : Ceiling Limit Value and Time Period (if specified):

NIOSH / REL value : Recommended exposure limit (REL): NIOSH / STEL value : Short Term Exposure Limit (STEL):

NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour

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workday during a 40-hour workweek

NIOSH REL / ST : STEL - 15-minute TWA exposure that should not be exceeded

at any time during a workday

NIOSH REL / C : Ceiling value not be exceeded at any time.

OSHA P0 / TWA : 8-hour time weighted average

OSHA P0 / C : Ceiling limit

OSHA Z-1 / TWA : 8-hour time weighted average

OSHA Z-1 / C : Ceiling

OSHA Z-3 / TWA : 8-hour time weighted average

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule: ENCS - Existing and New Chemical Substances (Japan): ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System: IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization: IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI -Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ -Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB -Very Persistent and Very Bioaccumulative

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We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.



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