

**DeBlock T" a mixture of Methylene Chloride and Trichloroacetic Acid"  
(605)****000000011349**

Version 1.6

Revision Date 04/23/2014

Print Date 12/04/2014

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : DeBlock T" a mixture of Methylene Chloride and Trichloroacetic Acid" (605)

MSDS Number : 000000011349

Product Use Description : Laboratory Use

Manufacturer or supplier's details : Honeywell International Inc.  
101 Columbia Road  
Morristown, NJ 07962-1057

For more information call : 1-800-368-0050  
+1-231-726-3171  
(Monday-Friday, 9:00am-5:00pm)

**In case of emergency call : Medical: 1-800-498-5701 or +1-303-389-1414**  
: **Transportation (CHEMTREC): 1-800-424-9300 or +1-703-527-3887**  
:  
: (24 hours/day, 7 days/week)

**SECTION 2. HAZARDS IDENTIFICATION****Emergency Overview**

Form : liquid, clear

Color : colourless

Odor : mild sweet

**Classification of the substance or mixture**

Classification of the substance or mixture : Acute toxicity, Category 4, Dermal  
Skin irritation, Category 2  
Serious eye damage, Category 1

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Carcinogenicity, Category 2

**GHS Label elements, including precautionary statements**

Symbol(s)

:



Signal word

: Danger

Hazard statements

: Harmful in contact with skin.  
Causes skin irritation.  
Causes serious eye damage.  
Suspected of causing cancer.

Precautionary statements

: **Prevention:**  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Wash skin thoroughly after handling.  
Wear protective gloves/ eye protection/ face protection.**Response:**IF ON SKIN: Wash with plenty of soap and water.  
IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
Immediately call a POISON CENTER or doctor/ physician.  
If skin irritation occurs: Get medical advice/ attention.  
Take off contaminated clothing and wash before reuse.**Storage:**

Store locked up.

**Disposal:**

Dispose of contents/ container to an approved waste disposal plant.

**Carcinogenicity**

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NTP:	Dichloromethane	75-09-2
	Reasonably Anticipated to be a Human Carcinogen.	
IARC:	Dichloromethane	75-09-2
	Group 2B: Possibly carcinogenic to humans	
	Trichloroacetic acid	76-03-9
	Group 2B: Possibly carcinogenic to humans	
ACGIH:	Dichloromethane	75-09-2
	A3: Confirmed animal carcinogen	
	Trichloroacetic acid	76-03-9
	A3: Confirmed animal carcinogen	

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

Chemical nature : Mixture

Chemical Name	CAS-No.	Concentration
Dichloromethane	75-09-2	97.00 %
Trichloroacetic acid	76-03-9	3.00 %

**SECTION 4. FIRST AID MEASURES**

Inhalation	:	Call a physician immediately. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Use oxygen as required, provided a qualified operator is present.
Skin contact	:	Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use. Call a physician immediately.

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Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately.

Ingestion : Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Call a physician immediately.

**Notes to physician**

Treatment : Treat symptomatically.

**SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Dry chemical  
Carbon dioxide (CO<sub>2</sub>)  
Foam  
Cool closed containers exposed to fire with water spray.

Specific hazards during firefighting : This product is not flammable at ambient temperatures and atmospheric pressure.  
In case of fire hazardous decomposition products may be produced such as:  
Gaseous hydrogen chloride (HCl).  
Phosgene  
Chlorine (Cl<sub>2</sub>)  
Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)

Special protective equipment for firefighters : Wear self-contained breathing apparatus and protective suit.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions : Wear personal protective equipment.  
Immediately evacuate personnel to safe areas.  
Keep people away from and upwind of spill/leak.  
Ensure adequate ventilation.  
Remove all sources of ignition.

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- Isolate the affected area. Confine entry into the affected area to those persons properly protected (see Section 8 of MSDS).  
Do not swallow.  
Do not breathe vapours or spray mist.  
Do not get in eyes, on skin, or on clothing.
- Environmental precautions : Prevent further leakage or spillage if safe to do so.  
Do not let product enter drains.  
Discharge into the environment must be avoided.  
Do not flush into surface water or sanitary sewer system.  
Do not allow run-off from fire fighting to enter drains or water courses.
- Methods for cleaning up : Ventilate the area.  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Shovel into suitable container for disposal.  
Dispose of absorbed material in accordance with the regulations.

**SECTION 7. HANDLING AND STORAGE****Handling**

- Handling : Wear personal protective equipment.  
Use only in well-ventilated areas.  
Keep container tightly closed.  
Do not swallow.  
Do not breathe vapours or spray mist.  
Do not get in eyes, on skin, or on clothing.
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.  
Keep product and empty container away from heat and sources of ignition.  
Fire or intense heat may cause violent rupture of packages.

**Storage**

- Requirements for storage areas and containers : Keep containers tightly closed in a dry, cool and well-ventilated place.  
Containers which are opened must be carefully resealed and

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kept upright to prevent leakage.  
Keep away from heat and sources of ignition.  
Keep away from direct sunlight.  
Store away from incompatible substances.  
Container hazardous when empty.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

- Protective measures : Ensure that eyewash stations and safety showers are close to the workstation location.
- Engineering measures : Use with local exhaust ventilation.  
Prevent vapour buildup by providing adequate ventilation during and after use.
- Eye protection : Do not wear contact lenses.  
Wear as appropriate:  
Safety glasses with side-shields  
If splashes are likely to occur, wear:  
Goggles or face shield, giving complete protection to eyes
- Hand protection : Solvent-resistant gloves  
Gloves must be inspected prior to use.  
Replace when worn.
- Skin and body protection : Wear as appropriate:  
Solvent-resistant apron  
Solvent-resistant gloves  
If splashes are likely to occur, wear:  
Protective suit
- Respiratory protection : In case of insufficient ventilation wear suitable respiratory equipment.  
For rescue and maintenance work in storage tanks use self-contained breathing apparatus.  
Use NIOSH approved respiratory protection.
- Hygiene measures : When using, do not eat, drink or smoke.  
Wash hands before breaks and immediately after handling the product.  
Keep working clothes separately.  
Remove and wash contaminated clothing before re-use.

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Do not swallow.  
 Do not breathe vapours or spray mist.  
 Do not get in eyes, on skin, or on clothing.  
 This material has an established AIHA ERPG exposure limit.  
 The current list of ERPG exposure limits can be found at  
[http://www.aiha.org/insideaiha/GuidelineDevelopment/ERPG/Documents/2011erpgweelhandbook\\_table-only.pdf](http://www.aiha.org/insideaiha/GuidelineDevelopment/ERPG/Documents/2011erpgweelhandbook_table-only.pdf).

**Exposure Guidelines**

Components	CAS-No.	Value	Control parameters	Update	Basis
Dichloromethane	75-09-2	TWA : time weighted average	(50 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values
Dichloromethane	75-09-2	REF : Reference:	29 CFR 1910.1052	03 2012	OSHASP:US. OSHA Specifically Regulated Substances (29 CFR 1910.1001- 1050)
Dichloromethane	75-09-2	TWA : time weighted average	(25 ppm)	02 2006	OSHASP:US. OSHA Specifically Regulated Substances (29 CFR 1910.1001- 1050)
Dichloromethane	75-09-2	OSHA_A CT : OSHA Action level:	(12.5 ppm)	02 2006	OSHASP:US. OSHA Specifically Regulated Substances (29 CFR 1910.1001- 1050)

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Dichloromethane	75-09-2	STEL : Short term exposure limit	(125 ppm)	02 2006	OSHASP:US. OSHA Specifically Regulated Substances (29 CFR 1910.1001- 1050)
Trichloroacetic acid	76-03-9	TWA : time weighted average	(1 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values
Trichloroacetic acid	76-03-9	TWA : time weighted average	(0.5 ppm)	02 2012	ACGIHLIS_P:US. ACGIH Notice of Intended Changes (NIC) to Threshold Limit Values
Trichloroacetic acid	76-03-9	REL : Recomm ended exposure limit (REL):	7 mg/m3 (1 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards
Trichloroacetic acid	76-03-9	TWA : time weighted average	7 mg/m3 (1 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state : liquid, clear

Color : colourless

Odor : mild sweet

Melting point/freezing point : -95 °C



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Boiling point/boiling range	:	40 °C
Flash point	:	Note: does not flash, closed cup
Lower explosion limit	:	12 %(V) Note: The physical data is that of the main component.
Upper explosion limit	:	19 %(V) Note: The physical data is that of the main component.
Vapor pressure	:	466 hPa at 20 °C(68 °F)
Vapor density	:	2.9 Note: (Air = 1.0)
Density	:	1.33 g/cm <sup>3</sup> at 20 °C
Water solubility	:	13.2 g/l at 25 °C
Ignition temperature	:	556 °C Method: The physical data is that of the main component.

**SECTION 10. STABILITY AND REACTIVITY**

Chemical stability	:	Stable under recommended storage conditions.
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Possibility of hazardous reactions	: Hazardous polymerisation does not occur.
Conditions to avoid	: Heat, flames and sparks. Protect from extreme heat and cold. Keep away from direct sunlight.
Incompatible materials to avoid	: Oxidizing agents Strong acids and strong bases Metals May attack many plastics, rubbers and coatings.
Hazardous decomposition products	: In case of fire hazardous decomposition products may be produced such as: Phosgene Hydrogen chloride gas Carbon monoxide Carbon dioxide (CO <sub>2</sub> ) Chlorine

**SECTION 11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity Trichloroacetic acid	: LD50: 3,310 - 6,900 mg/kg Species: rat
Acute inhalation toxicity Trichloroacetic acid	: LC50: > 4800 ppm Exposure time: 4 h Species: rat
Acute dermal toxicity Dichloromethane	: LD50: > 2,000 mg/kg Species: rat
Trichloroacetic acid	: LD50: > 2,000 mg/kg Species: rat

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## Skin irritation

Dichloromethane : Species: rabbit  
Result: Moderate skin irritation

Trichloroacetic acid : Species: rabbit  
Result: Causes burns.  
Classification: Corrosive

## Eye irritation

Dichloromethane : Species: rabbit  
Result: Moderate eye irritation

## Genotoxicity in vitro

Dichloromethane : Test Method: Ames test  
Result: positive

Trichloroacetic acid : Note: In vitro tests did not show mutagenic effects  
: Test Method: In vitro gene mutation study in mammalian cells  
Cell type: Chinese Hamster Ovary Cells  
Result: positive  
: Test Method: Unscheduled DNA synthesis  
Result: positive  
Note: Liver cells mouse

## Genotoxicity in vivo

Trichloroacetic acid : Result: positive negative

## Further information

Dichloromethane : Note:  
Confirmed animal carcinogen with unknown relevance to humans.

Trichloroacetic acid : Note:  
Confirmed animal carcinogen with unknown relevance to humans.

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**SECTION 12. ECOLOGICAL INFORMATION**

## Toxicity to fish

## Dichloromethane

: static test  
LC50: 310 mg/l  
Exposure time: 96 h  
Species: Pimephales promelas (fathead minnow)

## flow-through test

LC50: 193 mg/l  
Exposure time: 96 h  
Species: Pimephales promelas (fathead minnow)

## flow-through test

LC50: 10.95 mg/l  
Exposure time: 96 h  
Species: Oncorhynchus mykiss (rainbow trout)

## static test

LC50: 220 mg/l  
Exposure time: 96 h  
Species: Lepomis macrochirus (Bluegill sunfish)

## Trichloroacetic acid

: LC50: 2,000 mg/l  
Exposure time: 96 h  
Species: Pimephales promelas (fathead minnow)

## Toxicity to daphnia and other aquatic invertebrates

## Dichloromethane

: static test  
EC50: 140 mg/l  
Exposure time: 48 h  
Species: Daphnia magna (Water flea)

## Trichloroacetic acid

: EC50: 2,000 mg/l  
Exposure time: 48 h  
Species: Daphnia magna (Water flea)

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Toxicity to algae  
Trichloroacetic acid : EC50: 0.3 mg/l  
Exposure time: 14 d  
Species: Chlorella pyrenoidosa

NOEC: 0.01 mg/l  
Exposure time: 14 d  
Species: Chlorella pyrenoidosa

Toxicity to bacteria  
Dichloromethane : EC50: 1,000 mg/l  
Exposure time: 15 min  
Species: Photobacterium phosphoreum

**Further information on ecology****SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal methods : Observe all Federal, State, and Local Environmental regulations.

**SECTION 14. TRANSPORT INFORMATION**

**DOT** UN/ID No. : UN 2922  
Proper shipping name : CORROSIVE LIQUID, TOXIC, N.O.S.  
(Trichloroacetic acid, Dichloromethane)  
Class : 8  
Packing group : II  
Hazard Labels : 8 (6.1)

**IATA** UN/ID No. : UN 2922  
Description of the goods : CORROSIVE LIQUID, TOXIC, N.O.S.  
(Trichloroacetic acid, Dichloromethane)  
Class : 8  
Packaging group : II  
Hazard Labels : 8 (6.1)  
Packing instruction (cargo) : 855

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	aircraft)		
	Packing instruction (passenger aircraft)	:	851
	Packing instruction (passenger aircraft)	:	Y840
<b>IMDG</b>	UN/ID No.	:	UN 2922
	Description of the goods	:	CORROSIVE LIQUID, TOXIC, N.O.S. (TRICHLOROACETIC ACID, DICHLOROMETHANE)
	Class	:	8
	Packaging group	:	II
	Hazard Labels	:	8 (6.1)
	EmS Number	:	F-A, S-B
	Marine pollutant	:	no

**SECTION 15. REGULATORY INFORMATION****Inventories**

US. Toxic Substances Control Act	:	On TSCA Inventory
Australia. Industrial Chemical (Notification and Assessment) Act	:	On the inventory, or in compliance with the inventory
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)	:	All components of this product are on the Canadian DSL.
Japan. Kashin-Hou Law List	:	On the inventory, or in compliance with the inventory
Korea. Toxic Chemical Control Law (TCCL) List	:	On the inventory, or in compliance with the inventory
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	:	On the inventory, or in compliance with the inventory

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China. Inventory of Existing Chemical Substances : On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand : On the inventory, or in compliance with the inventory

**National regulatory information**

US. EPA CERCLA Hazardous Substances (40 CFR 302) : The following component(s) of this product is/are subject to release reporting under 40 CFR 302 when release exceeds the Reportable Quantity (RQ):

Reportable quantity: 1000 lbs  
: Dichloromethane 75-09-2

**SARA 302 Components** : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components** : The following components are subject to reporting levels established by SARA Title III, Section 313:

: Dichloromethane 75-09-2

**SARA 311/312 Hazards** : Acute Health Hazard  
Chronic Health Hazard

**CERCLA Reportable Quantity** : 1031 lbs

**California Prop. 65** : WARNING! This product contains a chemical known to the State of California to cause cancer.

Dichloromethane 75-09-2

Trichloroacetic acid 76-03-9

**Massachusetts RTK** : Dichloromethane 75-09-2  
: Trichloroacetic acid 76-03-9

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<b>New Jersey RTK</b>	:	Dichloromethane	75-09-2
	:	Trichloroacetic acid	76-03-9
<b>Pennsylvania RTK</b>	:	Dichloromethane	75-09-2
	:	Trichloroacetic acid	76-03-9
<b>WHMIS Classification</b>	:	D1B: Toxic Material Causing Immediate and Serious Toxic Effects D2A: Very Toxic Material Causing Other Toxic Effects D2B: Toxic Material Causing Other Toxic Effects E: Corrosive Material This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.	

**SECTION 16. OTHER INFORMATION**

	<b>HMIS III</b>	<b>NFPA</b>
Health hazard	: 3*	3
Flammability	: 1	1
Physical Hazard	: 0	
Instability	:	1

\* - Chronic health hazard

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

**Further information**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.



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Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Previous Issue Date: 09/16/2013

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