SAFETY DATA SHEET		H	<b>Ioneywell</b> Burdick & Jackson™
3% Trichloroacetic Acid	l in Dic	hloromethane	
BR605-4			
Version 1.3 Issuing date 09/2	8/2017	Revision Date 10/08/2020	Print Date 08/03/2021
1. IDENTIFICATION OF THE SUB	STANCE/	MIXTURE AND OF THE COMPA	NY/UNDERTAKING
Product information			
Trade name :	3% Tri	chloroacetic Acid in Dichlorometh	ane
Number :	00000	0011349	
Recommended use of the : chemical and restrictions on use	Labora	tory Use	
Manufacturer or supplier's : details	GmbH Wunst	well Specialty Chemicals Seelze orfer Straße 40 , 30926	
For further information, : please contact:		368-0050 -726-3171 ay-Friday, 9:00am-5:00pm)	
In case of emergency call	Transı 527-38 In Jap	al: 1-800-498-5701 or +1-303-38 portation (CHEMTREC): 1-800-4 87 an: +(81)-345209637 urs/day, 7 days/week)	
2. HAZARDS IDENTIFICATION		4.170	
Classification of the substar Classification of the substance or mixture	: Skin Seric Carc Spec Shor	irritation, Category 2 bus eye damage, Category 1 inogenicity, Category 2 ific target organ toxicity - single e t-term (acute) aquatic hazard, Ca -term (chronic) aquatic hazard, C	tegory 2
GHS Label elements, includi	ng preca	utionary statements	
Symbol(s)	:		
Signal word	: Dang	jer	
Hazard statements	: Caus	es skin irritation.	
		1/14	

					Burdick & Jacks
	roacetic Aci	d in Dic	hlorometh	ane	
<b>R605-4</b> ersion 1.3	Issuing date 09/	28/2017	Revision Dat	te 10/08/2020	Print Date 08/03/20
		May Susp	ected of causir	ess or dizziness.	effects.
Precaution	ary statements	Obta Do n unde Avoi Was Use Avoi Wea	ot handle until a rstood. d breathing dus h skin thorough only outdoors o d release to the	t/ fume/ gas/ mist ly after handling. r in a well-ventilat environment.	ons have been read and / vapours/ spray.
		IF O IF IN posit IF IN Rem rinsit Imm If ski Take	HALED: Removion comfortable l EYES: Rinse cove contact len ng. ediately call a P n irritation occu	for breathing. autiously with wa ses, if present an OISON CENTER rs: Get medical ad	air and keep at rest in a ter for several minutes. d easy to do. Continue / doctor.
				ated place. Keep	container tightly closed.
				/ container to an a	approved waste disposal
COMPOSITI	ON/INFORMATIOI				
Chemical r		: Mixtu			
Chemical r				CAS-No.	Concentration
Dichlorome				75-09-2	97.00 %
Dichlorome					
Trichloroad Trichloroad				76-03-9	3.00 %

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SAFETY DATA	SHEET			Burdick & Jackson
	cetic Acio	d in Dic	hloromethane	
<b>3R605-4</b> Version 1.3 Iss	suing date 09/2	8/2017	Revision Date 10/08/2020	Print Date 08/03/202
Note: Organic S Note: Substanc Note: Mutagens	es Subject to b s, Existing Che	e Notified micals		
Note: Substanc	es Prevented F cle 38-3 Specif	From Impa ied Chemi	signated substances) irment of Health ical Substances	
. FIRST AID MEAS	URES			
Inhalation		Remo If not If brea	a physician immediately. hye to fresh air. breathing, give artificial respiratic athing is difficult, give oxygen. hyygen as required, provided a qu nt.	
Skin contact		minut Take Wash	off immediately with plenty of wa es. off contaminated clothing and sh contaminated clothing before re- physician immediately.	oes immediately.
Eye contact		for at	immediately with plenty of water least 15 minutes. physician immediately.	, also under the eyelids,
Ingestion		Neve	ot induce vomiting without medica r give anything by mouth to an un physician immediately.	
Notes to physic	ian	: Treat	symptomatically.	
. FIREFIGHTING N	IEASURES			
Suitable exting	uishing media	Foam	on dioxide (CO2)	with water spray.
Specific hazard firefighting	s during	atmos In cas produ Gase Phose	product is not flammable at ambie spheric pressure. se of fire hazardous decompositio ced such as: ous hydrogen chloride (HCI). gene ine (CI2)	
			3/14	

	ATA SHEET			loneywell
				Burdick & Jackson <sup>™</sup>
% Trichlo	roacetic Acio	l in D	ichloromethane	
3R605-4				
/ersion 1.3	Issuing date 09/2	8/2017	Revision Date 10/08/2020	Print Date 08/03/2027
			bon monoxide bon dioxide (CO2)	
Special pro for firefighte	tective equipment ers	: We	ar self-contained breathing apparate	us and protective suit.
. ACCIDENTA	L RELEASE MEAS	SURES		
	recautions, equipment and procedures	Imn Kee Ens Rer Isol to th Do Do	ar personal protective equipment. nediately evacuate personnel to safe p people away from and upwind of ure adequate ventilation. nove all sources of ignition. ate the affected area. Confine entry nose persons properly protected (se not swallow. not breathe vapours or spray mist. not get in eyes, on skin, or on clothi	spill/leak. into the affected area ee Section 8 of MSDS).
Environme	ntal precautions	Do Disc Do Do	vent further leakage or spillage if sa not let product enter drains. charge into the environment must be not flush into surface water or sanita not allow run-off from fire fighting to rses.	e avoided. ary sewer system.
	nd materials for nt and cleaning up	Soa acio Sho Disj	tilate the area. k up with inert absorbent material ( l binder, universal binder, sawdust). vel into suitable container for dispo- pose of absorbed material in accord lations.	sal.
. HANDLING A	AND STORAGE			
Handling				
-	s for safe handling	Use Kee Do Do	ar personal protective equipment. only in well-ventilated areas. p container tightly closed. not swallow. not breathe vapours or spray mist. not get in eyes, on skin, or on clothi	ng.
Advice on p fire and exp	protection against blosion	Kee igni	mal measures for preventive fire pro- p product and empty container awa tion. or intense heat may cause violent 4/14	ay from heat and sources of

	SHEET			H	<b>DNEYWE</b> Burdick & Jackson
6 Trichloroa	cetic A	cid in Dichl	oromethan	e	
R605-4					
rsion 1.3 Iss	uing date C	9/28/2017 F	Revision Date 10	/08/2020	Print Date 08/03/20
Storage					
Conditions for sa including any incompatibilities		ventilated Containe kept uprig Keep awa Keep awa Store awa		ned must be ca akage. I sources of igni nlight. tible substances	refully resealed and tion.
EXPOSURE CON Components w		RSONAL PROT ace control para		Update	Basis
	No.		parameters	opaalo	
Dichlorometh ane Dichlorometh ane	75-09-2	TL : Threshold limits	(50 ppm)	04 2009	ISHL:Industrial Safety and Health Law OEL
		TWA : Time weighted average	170 mg/m3 (50 ppm)	04 2007	Japan Society for Occupational Health:Japan Society for Occupational Health allowable concentration recommendatio n value
1		TLV-C :	340 mg/m3	04 2007	Japan Society

# SAFETY DATA SHEET



Burdick & Jackson™

# 3% Trichloroacetic Acid in Dichloromethane

### **BR605-4**

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SKIN_DES :	Can be absorbed	04 2007	Japan Society
Skin	through the skin.		for Occupational
designation:			Health:Japan
_			Society for
			Occupational
			Health
			allowable
			concentration
			recommendatio
			n value

### Appropriate engineering controls

Use with local exhaust ventilation.

Prevent vapour buildup by providing adequate ventilation during and after use.

#### Individual protection measures, such as personal protective equipment

Respiratory protection	<ul> <li>In case of insufficient ventilation wear suitable respiratory equipment.</li> <li>For rescue and maintenance work in storage tanks use self- contained breathing apparatus.</li> <li>Use NIOSH approved respiratory protection.</li> </ul>
Hand protection	<ul> <li>Solvent-resistant gloves</li> <li>Gloves must be inspected prior to use.</li> <li>Replace when worn.</li> </ul>
Eye protection	<ul> <li>Do not wear contact lenses.</li> <li>Wear as appropriate:</li> <li>Safety glasses with side-shields</li> <li>If splashes are likely to occur, wear:</li> <li>Goggles or face shield, giving complete protection to eyes</li> </ul>
Skin and body protection	: Wear as appropriate: Solvent-resistant apron Solvent-resistant gloves If splashes are likely to occur, wear: Protective suit
Hygiene measures	<ul> <li>When using, do not eat, drink or smoke.</li> <li>Wash hands before breaks and immediately after handling the product.</li> <li>Keep working clothes separately.</li> <li>Remove and wash contaminated clothing before re-use.</li> <li>Do not swallow.</li> <li>Do not breathe vapours or spray mist.</li> <li>Do not get in eyes, on skin, or on clothing.</li> <li>6/14</li> </ul>

AFETY DATA SHEET	Honeywell Burdick & Jackson
	id in Dichloromethane
R605-4 ersion 1.3 Issuing date 09	/28/2017 Revision Date 10/08/2020 Print Date 08/03/202
	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.
Protective measures	: Ensure that eyewash stations and safety showers are close to the workstation location.
PHYSICAL AND CHEMICAL I	PROPERTIES
Physical state	: liquid, clear
Colour	: colourless
Odour	: mild sweet
Melting point/range	: -95 °C
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.
Vapour pressure	: 466 hPa at 20 °C(68 °F)
Vapour density	: 2.9 Note: (Air = 1.0)
Density	: 1.33 g/cm3 at 20 °C
Water solubility	: 13.2 g/l at 25 °C
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SAFETY DATA SHEET	Honeywell Burdick & Jackson
3% Trichloroacetic Ac	id in Dichloromethane
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Ignition temperature	: 556 °C Method: The physical data is that of the main component.
0. STABILITY AND REACTIVIT	
Chemical stability	: Stable under recommended storage conditions.
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	<ul> <li>In case of fire hazardous decomposition products may be produced such as: Phosgene Hydrogen chloride gas Carbon monoxide Carbon dioxide (CO2) Chlorine</li> </ul>
1. TOXICOLOGICAL INFORM	TION
Acute oral toxicity	: Acute toxicity estimate: 83,333.33 mg/kg Method: Calculation method
Acute inhalation toxicity Trichloroacetic acid	: LC50: > 4800 ppm Exposure time: 4 h Species: Rat
Acute dermal toxicity	: Acute toxicity estimate: 2,500 mg/kg
	8/14

SAFETY DATA SHEE	Т	Honeywell Burdick & Jackson <sup>™</sup>
	Acid in Dichloromethane	
<b>3R605-4</b> Version 1.3 Issuing date	e 09/28/2017 Revision Date 10/08/2020	Print Date 08/03/2021
	Method: Calculation method	
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	
Dichloromethane	: Test Method: Ames test Result: positive	
Trichloroacetic acid	<ul> <li>Note: In vitro tests did not show muta</li> <li>Test Method: In vitro gene mutation s Cell type: Chinese Hamster Ovary C Result: positive</li> <li>Test Method: Unscheduled DNA syn Result: positive Note: Liver cells Mouse</li> </ul>	study in mammalian cells ells
Further information Dichloromethane	: Note: Confirmed animal carcinogen with ur humans.	nknown relevance to
Trichloroacetic acid	: Note: Confirmed animal carcinogen with ur humans.	known relevance to
2. ECOLOGICAL INFORMA	TION	
Toxicity to fish Dichloromethane	: static test LC50: 310 mg/l Exposure time: 96 h Species: Pimephales promelas (fathe 9/14	ead minnow)

SAFETY DA	TA SHEET			Honeywell Burdick & Jackson*
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BR605-4				
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		LC50 Expos	hrough test : 193 mg/l sure time: 96 h es: Pimephales promelas (fathe	ad minnow)
		flow-ti LC50 Expos	hrough test : 10.95 mg/l sure time: 96 h	
		static LC50	: 220 mg/l	bow trout)
			sure time: 96 h es: Lepomis macrochirus (Blueç	gill sunfish)
Trichloroace	tic acid	Expos	: 2,000 mg/l sure time: 96 h es: Pimephales promelas (fathe	ad minnow)
Toxicity to da Dichloromet	aphnia and other hane	: static EC50 Expos		)
Trichloroace	tic acid	Expos	: 2,000 mg/l sure time: 48 h es: Daphnia magna (Water flea)	)
Toxicity to al Trichloroace		Expos	: 0.3 mg/l sure time: 14 d	
		NOE( Expos	es: Chlorella pyrenoidosa (aglae C: 0.01 mg/l sure time: 14 d es: Chlorella pyrenoidosa (aglae	
Toxicity to ba Dichloromet		Expos	: 1,000 mg/l sure time: 15 min es: Photobacterium phosphoreu	ım
			10/14	

AFETY DATA SHEET		H	Burdick & Jacksor
% Trichloroacetic Acid	d in Dic	chloromethane	
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. DISPOSAL CONSIDERATION	IS		
Disposal methods	: In acc	cordance with local and national re	egulations.
. TRANSPORT INFORMATION			
<b>ADR</b> UN/ID No.	: UN 2	922	
Description of the goods		ROSIVE LIQUID, TOXIC, N.O.S.	
Class	(TRIC : 8	CHLOROACETIC ACID, DICHLOF	ROMETHANE)
Packing group	: 11		
Classification Code	: CT1		
Hazard Identification Number	: 86		
Labels	: 8 (6.1	)	
ΙΑΤΑ			
UN/ID No.	: UN 29	922	
Description of the goods		sive liquid, toxic, n.o.s.	
		loroacetic acid, Dichloromethane)	
Class	: 8		
Packing group	:	、	
Labels Packing instruction (cargo	: 8 (6.1 : 855	)	
aircraft)	. 000		
Packing instruction	: 851		
(passenger aircraft)			
Packing instruction	: Y840		
(passenger aircraft)			
IMDG			
UN/ID No.	: UN 29	922	
Description of the goods		ROSIVE LIQUID, TOXIC, N.O.S.	
	(TRIC	CHLOROACETIC ACID, DICHLOP	ROMETHANE)
Class	: 8		
Packing group Labels	:    : 8 (6 1	λ.	
EmS Number 1	: 8 (6.1 : F-A	)	
EmS Number 2	: S-B		
Marine pollutant	: yes		
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3% Trichloroacetic Acie	d in Dichloromethane
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15. REGULATORY INFORMATIO	N
National regulatory information	tion
Vessel Safety Law JP VSL	: Toxic and infectious substances (Article 2 and 3 of rules on shipping and storage of dangerous goods and its Attached Table 1)
Aviation Law JP AVL	: Toxic and infectious substances (Article 194 of The Enforcement Rules of Aviation Law and its Attached Table 1)
Fire Service Law	: Not relevant
Japan. ISHL Class 2 Designated Chemical Substances (ISHL Enforcement Order, Table 3, as amended)	: Listed Dichloromethane 75-09-2
Japan. ISHL Specified Chemical Substances (ISHL Ordinance No. 39, Article 38- 3)	: Listed Dichloromethane 75-09-2
Japan. ISHL Hazardous Substances Labeling Requirements (ISHL Art. 57, Enforcement Order Art. 18, Enforcement Rule Art. 30 & 31, as amended through 6 April 2018)	: Listed Dichloromethane 75-09-2 Trichloroacetic acid 76-03-9
Japan. ISHL Mutagens, Existing Chemicals List	: Listed Dichloromethane 75-09-2
Japan. ISHL Class 2 Organic Solvents	: Listed Dichloromethane 75-09-2
Japan. ISHL Designated Carcinogen	: Listed Dichloromethane 75-09-2
Japan. SDS and Risk Assessment Requirements (ISHL Art. 57-2 and 57-3, Enforcement Order Art. 18-2,	: Listed Dichloromethane 75-09-2 Trichloroacetic acid 76-03-9
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SAFETY DI	ATA SHEET						<b>ONCYWEI</b> Burdick & Jackson <sup>¬</sup>
	roacetic Acid	l ir	n Dic	hlorome	ethane		
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and 34-2-2 Poisonous Substance Act on Con Release Ar Chemical S Environme	nt Rule Art. 34-2 ), as amended and Deleterious s Control Law firmation, etc. of mounts of Specific Substances in the nt and Promotion ments to the ent Thereof	-	186, 2 Dichlo	I Designate		Substances	5
Other inter	national regulation	S					
Notificatio US. Toxic S Control Act	Substances	:	On TS	SCA Invento	ry		
Australia. I (Notificatio Assessmer		:	On th	e inventory,	or in complia	ance with th	ne inventory
(CEPA). Do	ntal Protection Act	:	All co	mponents of	this produc	t are on the	e Canadian DSL
Japan. Kas	shin-Hou Law List	:	On th	e inventory,	or in complia	ance with th	ne inventory
Korea. Exis Inventory (	sting Chemicals KECI)	:	On th	e inventory,	or in complia	ance with th	ne inventory
Substance	. The Toxic s and Hazardous ar Waste Control	:	On th	e inventory,	or in complia	ance with th	ne inventory
	entory of Existing Substances	:	On th	e inventory,	or in complia	ance with th	ne inventory
Chemicals	nd. Inventory of (NZIoC), as by ERMA New	:	On th	e inventory,	or in complia	ance with th	ne inventory

SAFETY DATA SHEET
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## **3% Trichloroacetic Acid in Dichloromethane**

## BR605-4

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### **16. OTHER INFORMATION**

**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.

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

Previous Issue Date: 05/21/2020

Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group