

## SAFETY DATA SHEET JC-1

Revision: 10/19/2018

	CHIMICAL					Supersedes Revision: 04/15/2014		
		accord	ing to Regulation (EC) No. 1907/2006 as a	amended by (EC) No. 2015/8	330 and US OSHA HCS	\$ 2015		
		Section 1.	Identification of the Substar	nce/Mixture and of	the Company/U	Indertaking		
1.1	Product	Code:	15003					
	Product	Name:	JC-1					
	Synony	ms:	5,6-dichloro-2-[3-(5,6-dic	hloro-1,3-diethyl-1,3	-dihydro-2H-benz	zimidazol-2-ylidene)-1-propen-1-y		
			-1,3-diethyl-1H-benzimid	azolium, monoiodide	e; CBIC2; NK 142	20;		
1.2	Relevan	t identified uses o	of the substance or mixture a	and uses advised a	gainst:			
	Releva	ant identified uses	s: For research use only, ne	ot for human or veter	rinary use.			
1.3	Details of	of the Supplier of	the Safety Data Sheet:					
	Compa	any Name:	Cayman Chemical Comp	bany				
			1180 E. Ellsworth Rd.					
			Ann Arbor, MI 48108					
	Web s	ite address:	www.caymanchem.com					
	Inform	ation:	Cayman Chemical Comp	bany	+1 (73	4)971-3335		
1.4	Emerge	ncy telephone nu	mber:					
	Emerg	ency Contact:	CHEMTREC Within USA	and Canada:	+1 (80	00)424-9300		
			CHEMTREC Outside US	A and Canada:	+1 (70	03)527-3887		
			Section 2. Ha	zards Identific	cation			
2.1	Classifi	cation of the Subs	stance or Mixture:					
2.2		ements:						
			Nana					
		GHS Signal Word: None						
	GHS Hazard Phrases:							
	Based	on evaluation of c	urrently available data this sub	stance or mixture is i	not classifiable a	ccording to GHS.		
	GHS F	Precaution Phrase	es:					
	No phi	rases apply.						
	GHS F	Response Phrase	S:					
	No phi	rases apply.						
	GHS S	Storage and Dispo	osal Phrases:					
	Please	e refer to Section 7	for Storage and Section 13 for	Disposal information	n.			
2.3	Advers	e Human Health	Material may be irritating to t	he mucous membrar	nes and upper re	spiratory tract.		
	Effects and Symptoms: May be harmful by inhalation, ingestion, or skin absorption.							
	May cause eye, skin, or respiratory system irritation.							
	To the best of our knowledge, the toxicological properties have not been thoroughly investigated.							
		Sec	tion 3. Composition	/Information of	on Ingredie	nts		
CAS	#/		ponents (Chemical Name)/	Concentration	EC No./	GHS Classification		
	CS #	REACH Registra			EC Index No.			
352	20-43-2	JC-1		100.0 %	NA	No data available.		
NA					NA			
		•		•	•	•		

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		Section 4. First Aid Measures
4.1	Description of First Aid	
	Measures:	
	In Case of Inhalation:	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.
	In Case of Skin Contact:	Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.
	In Case of Eye Contact:	Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.
	In Case of Ingestion:	Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.
		Section 5. Fire Fighting Measures
5.1	Suitable Extinguishing	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.
	Media:	Use water spray to cool fire-exposed containers.
	Unsuitable Extinguishing Media:	A solid water stream may be inefficient.
5.2	Flammable Properties an Hazards:	dNo data available.
		No data available.
	Flash Pt:	No data.
	Explosive Limits:	LEL: No data. UEL: No data.
	Autoignition Pt:	No data.
5.3	Fire Fighting Instructions	s: 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
6.1	Protective Precautions,	Avoid raising and breathing dust, and provide adequate ventilation.
		d As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,
	Emergency Procedures:	and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).
6.2	Environmental Precautions:	Take steps to avoid release into the environment, if safe to do so.
6.3		r Contain spill and collect, as appropriate.
	Containment and Cleanir	ngTransfer to a chemical waste container for disposal in accordance with local regulations.
	Up:	
		Section 7. Handling and Storage
7.1	Precautions To Be Taker	Avoid breathing dust/fume/gas/mist/vapours/spray.
	in Handling:	Avoid prolonged or repeated exposure.
7.2		Keep container tightly closed.
	in Storing:	Store in accordance with information listed on the product insert.
	Sec	tion 8. Exposure Controls/Personal Protection
8.1	Exposure Parameters:	

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8.2	Exposure Controls:						
8.2.1	Engineering Controls	Ise process enclosures, local exhaust ventilation, or other engineering controls to control airborne					
	(Ventilation etc.):	evels below recommended exposure limits.					
8.2.2	Personal protection equipm	nent:					
	Eye Protection:	Safety glasses					
	Protective Gloves:	Compatible chemical-resistant gloves					
	Other Protective Clothing:Lab coat						
	Respiratory Equipment	IIOSH approved respirator, as conditions warrant.					
	(Specify Type):						
	Work/Hygienic/Maintenan	Do not take internally.					
	ce Practices:	acilities storing or utilizing this material should be equipped with an eyewash and a safety showe					
	V	Vash thoroughly after handling.					
	١	lo data available.					
	Se	ction 9. Physical and Chemical Properties					
9.1	Information on Basic Physic	al and Chemical Properties					
	Physical States:	[]Gas []Liquid [X]Solid					
	Appearance and Odor:	A crystalline solid					
	pH:	No data.					
	Melting Point:	No data.					
	Boiling Point:	No data.					
	Flash Pt:	No data.					
	Evaporation Rate:	No data.					
	Flammability (solid, gas):	No data available.					
	Explosive Limits:	LEL: No data. UEL: No data.					
	Vapor Pressure (vs. Air or i	nm No data.					
	Hg):						
	Vapor Density (vs. Air = 1):	No data.					
	Specific Gravity (Water = 1)	: No data.					
	Solubility in Water:	No data.					
	Solubility Notes:	~1 mg/ml in DMSO; ~3 mg/ml in DMF;					
	Octanol/Water Partition	No data.					
	Coefficient:						
	Autoignition Pt:	No data.					
	Decomposition Temperatur						
	Viscosity:	No data.					
9.2	Other Information						
	Percent Volatile:	No data.					
	Molecular Formula & Weigh	<b>it:</b> C25H27Cl4N4 • I 652.2					

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			Section 10. Stabilit	y and Reacti	vity		
0.1	Reactivi	ity:	No data available.				
0.2	Stability	/:	Unstable [ ] Stable [ X ]				
<b>10.3 Stability Note(s):</b> Stable if stored in accordance with information listed on the product insert					insert.		
	Polymer	rization:	Will occur [ ] Will not occur [	[X]			
0.4	Conditio	ons To Avoid:	No data available.				
0.5	Incompa	atibility - Materials	strong oxidizing agents				
	To Avoi	d:					
10.6	Hazardous		carbon dioxide				
	Decomp	osition or	carbon monoxide				
	Byproducts:		hydrogen chloride gas				
			hydrogen iodide				
			nitrogen oxides				
			Section 11. Toxicolo	•			
1.1	Informat	tion on ogical Effects:	The toxicological effects of this pr	oduct have not beer	n thoroughly si	tudied.	
CAS		-	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA
	<del>"</del> 0-43-2	JC-1		n.a.	n.a.	n.a.	n.a.
552	.0-43-2					11.a.	11.a.
			Section 12. Ecolog	jical Informat	ion		
2.1	Toxicity	:	Avoid release into the environmer		н. с.		
		_	Runoff from fire control or dilution	water may cause p	ollution.		
2.2	Persiste		No data available.				
	Degrada	-					
2.3	Bioaccu Potentia	imulative al:	No data available.				
2.4	Mobility	in Soil:	No data available.				
12.5	Results of PBT and vPvB No data available. assessment:						
12.6		dverse effects:	No data available.				
			Section 13. Dispose	al Considerat	ions		
3.1	Waste D	isposal Method:	Dispose in accordance with local,	state, and federal re	egulations.		
			Section 14. Trans	port Informat	ion		
14.1	LAND T	RANSPORT (US I	DOT):				
D	OT Prope	er Shipping Name:	Not dangerous goods.				
D	OT Hazar	d Class:					
U	N/NA Nur	nber:					
14.1	LAND T	RANSPORT (Euro	opean ADR/RID):				
A	DR/RID S	hipping Name:	Not dangerous goods.				
U	N Numbe	r:					
		SS:					
н	azard Cla						
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14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name:

Not dangerous goods.

Transport in accordance with local, state, and federal regulations.

Information:

**Additional Transport** 

### Section 15. Regulatory Information

CAS # Hazardous Com		ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
3520-43-2	2 JC-1		No	No	No	
CAS # Hazardous Com		ponents (Chemical Name)	Other US EPA or State Lists			
3520-43-2	JC-1		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
Regulatory Inf Statement:	formation	This SDS was prepared in acc No.1272/2008.	cordance with 29 CFF	R 1910.1200 and R	egulation (EC)	
		Section 16. Ot	her Information	on		
Revision Date:		10/19/2018				
Additional Information About		No data available.				
This Product:						
Company Policy or Disclaimer:		DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.				