

# SAFETY DATA SHEET JW 642

Revision: 04/22/2015

	Section 1 Ide	entification of the Substance/Mixture and of t	he Company/Undertaking				
			ne company chachaking				
.1	Product Code: Product Name:	11789 JW 642					
	Synonyms:	1,1,1,3,3,3-hexafluoropropan-2-yl 4-(3-phenox	xybenzyl)piperazine-1-carboxylate:				
2							
.2		he substance or mixture and uses advised ag					
.3	<b>Relevant identified uses:</b> For research use only, not for human or veterinary use.						
	Details of the Supplier of the Safety Data Sheet:						
	Company Name:	Cayman Chemical Company					
		1180 E. Ellsworth Rd. Ann Arbor, MI 48108					
	Web site address:	www.caymanchem.com					
	Information:	Cayman Chemical Company	+1 (734)971-3335				
.4	Emergency telephone numb						
.4	Emergency telephone numb Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300				
	Emergency Contact.	CHEMTREC Outside USA and Canada:	+1 (703)527-3887				
		Section 2. Hazards Identific	ation				
.1	Classification of the Substar	nce or Mixture:					
.1.1	Classification according to	Regulation (EC) No 1272/2008 [CLP]:					
.1.1	Classification according to Flammable Liquids, Categoria						
.1.1		ory 2					
.1.1	Flammable Liquids, Catego Serious Eye Damage/Eye I	ory 2 rritation, Category 2					
.1.1	Flammable Liquids, Catego Serious Eye Damage/Eye I	ory 2					
.2	Flammable Liquids, Catego Serious Eye Damage/Eye I Specific Target Organ Tox Label Elements:	ory 2 rritation, Category 2 icity (single exposure), Category 3					
	Flammable Liquids, Catego Serious Eye Damage/Eye I Specific Target Organ Tox Label Elements:	ory 2 rritation, Category 2					
.2	Flammable Liquids, Catego Serious Eye Damage/Eye I Specific Target Organ Tox Label Elements:	ory 2 rritation, Category 2 icity (single exposure), Category 3					
.2	Flammable Liquids, Catego Serious Eye Damage/Eye I Specific Target Organ Tox Label Elements:	ory 2 rritation, Category 2 icity (single exposure), Category 3					
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.2	Flammable Liquids, Categor Serious Eye Damage/Eye I Specific Target Organ Tox Label Elements: Labeling according to Regu	ory 2 rritation, Category 2 icity (single exposure), Category 3 lation (EC) No 1272/2008 [CLP]:					
.2	Flammable Liquids, Categor Serious Eye Damage/Eye I Specific Target Organ Tox Label Elements: Labeling according to Regu GHS Signal Word: GHS Hazard Phrases:	ory 2 rritation, Category 2 icity (single exposure), Category 3 lation (EC) No 1272/2008 [CLP]:					
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.2	Flammable Liquids, Categor Serious Eye Damage/Eye I Specific Target Organ Tox Label Elements: Labeling according to Regu GHS Signal Word: GHS Hazard Phrases: EUH066: Repeated exposur	ory 2 rritation, Category 2 icity (single exposure), Category 3 lation (EC) No 1272/2008 [CLP]: Danger e may cause skin dryness or cracking. id and vapor.					
.2	Flammable Liquids, Categor Serious Eye Damage/Eye I Specific Target Organ Tox Label Elements: Labeling according to Regu GHS Signal Word: GHS Hazard Phrases: EUH066: Repeated exposur H225: Highly flammable liqu	ory 2 rritation, Category 2 icity (single exposure), Category 3 lation (EC) No 1272/2008 [CLP]: Danger e may cause skin dryness or cracking. id and vapor. ritation.					
.2	Flammable Liquids, Categor Serious Eye Damage/Eye I Specific Target Organ Tox Label Elements: Labeling according to Regu GHS Signal Word: GHS Hazard Phrases: EUH066: Repeated exposur H225: Highly flammable liqu H319: Causes serious eye in	ory 2 rritation, Category 2 icity (single exposure), Category 3 lation (EC) No 1272/2008 [CLP]: Danger e may cause skin dryness or cracking. id and vapor. ritation.					
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.2	Flammable Liquids, Categor Serious Eye Damage/Eye I Specific Target Organ Tox Label Elements: Labeling according to Regur With the second second second second GHS Signal Word: GHS Hazard Phrases: EUH066: Repeated exposur H225: Highly flammable liqui H319: Causes serious eye in H336: May cause drowsiness GHS Precaution Phrases: P210: Keep away from {heat	ory 2 rritation, Category 2 icity (single exposure), Category 3 lation (EC) No 1272/2008 [CLP]: Danger e may cause skin dryness or cracking. id and vapor. ritation. s or dizziness.	g.				
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2.3

#### SAFETY DATA SHEET JW 642

Page: 2 of 6

Revision: 04/22/2015

P312: Call a POISON CENTER or doctor/physician if you feel unwell.

P337+313: If eye irritation persists, get medical advice/attention.

#### GHS Storage and Disposal Phrases:

Please refer to Section 7 for Storage and Section 13 for Disposal information.

- Adverse Human Health Causes serious eye irritation.
  - Effects and Symptoms: Material may be irritating to the mucous membranes and upper respiratory tract.

May be harmful by inhalation, ingestion, or skin absorption.

May cause drowsiness or dizziness.

May cause skin or respiratory system irritation.

Repeated exposure may cause skin dryness or cracking.

To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

#### Section 3. Composition/Information on Ingredients

CAS # / RTECS #	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
1416133-89-5 NA	JW 642	5.0 %	NA NA	No data available.
79-20-9 Al9100000	Methyl acetate	95.0 %	201-185-2 607-021-00-X	Flam. Liq. 2: H225 Eye Damage 2: H319 STOT (SE) 3: H335 H336

### Section 4. First Aid Measures

#### 4.1 Description of First Aid No data available.

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.
- 4.2 Important Symptoms and Exposure may cause: coughing, dizziness, drowsiness, headache, narcosis, optic nerve atrophy, Effects, Both Acute and chest tightness.

#### Delayed:

Measures:

## Section 5. Fire Fighting Measures

- 5.1 Suitable Extinguishing Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Use water spray to cool fire-exposed containers. Media: Unsuitable Extinguishing A solid water stream may be inefficient. Media: 5.2 Flammable Properties andCan release vapors that form explosive mixtures at temperatures at or above the flash point. Hazards: Container explosion may occur under fire conditions. Emits toxic fumes under fire conditions. Sensitive to static discharge. Vapors can travel to a source of ignition and flash back. Flash Pt: -10.00 C Method Used: Closed Cup

Multi-region format



#### SAFETY DATA SHEET JW 642

Page: 3 of 6

	Explosi	ve Limits:	LEL: 3.1% at	25.0 C UEL: 16.0%	at 25.0 C			
	Autoign	ition Pt:	455.00 C					
5.3	Fire Fighting Instructions: 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.					
			Note: Flammable as o	diluted in methyl acetate.				
			Section 6. Ac	cidental Release M	leasures			
6.1	Protecti	ve Precautions,	Avoid breathing vapo	ors and provide adequate ven	tilation.			
			d As conditions warran	t, wear a NIOSH approved se	elf-contained breathing appara	atus, or respirator,		
	Emerge	ncy Procedures:	and appropriate pers	onal protection (rubber boots	, safety goggles, and heavy r	ubber gloves).		
6.2	Environ	mental	Take steps to avoid r	elease into the environment,	if safe to do so.			
	Precaut	ions:						
6.3	Method	s and Material Fo	r Contain spill and coll	ect, as appropriate.				
	Contain	ment and Cleanir	ngTransfer to a chemic	al waste container for disposa	al in accordance with local reg	gulations.		
	Up:							
			Section 7.	Handling and Sto	rage			
7.1	Precaut	ions To Be Taker	Avoid breathing dust/	fume/gas/mist/vapours/spray				
	in Hand	ling:	Avoid prolonged or re	peated exposure.				
			Keep away from sources of ignition.					
			Take precautionary m	neasures against static discha	arge.			
7.2	Precaut	ions To Be Taker	Keep away from heat	eep away from heat, sparks, and flame.				
	in Stori	ng:	Keep container tightly closed.					
		Store in accordance with information listed on the product insert.						
	Other P	recautions:	Protect from moisture	).				
		Sec	tion 8. Exposu	re Controls/Person	al Protection			
8.1	Exposur	e Parameters:	<u> </u>					
CAS	-	Partial Chemica	Name	Britain EH40	France VL	Europe		
14161	133-89-5	JW 642		No data.	No data.	No data.		
	-20-9	Methyl acetate		TWA: 616 mg/m3 (200 ppm) STEL: 770 mg/m3 (250 ppm)	TWA: 610 mg/m3 (200 ppm) STEL: 760 mg/m3 (250 ppm)	No data.		
CAS	#	Partial Chemical	Namo	OSHA TWA	ACGIH TWA	Other Limits		
<u> </u>				No data.	No data.	No data.		
	133-89-5	JW 642						
79	-20-9	Methyl acetate		PEL: 200 ppm	TLV: 200 ppm STEL: 250 ppm	No data.		
8.2	Exposu	e Controls:						
8.2.1	-	ering Controls	Use process enclosu	res, local exhaust ventilation,	or other engineering controls	to control airborne		
	-	tion etc.):	•	ended exposure limits.	gg			
8.2.2	•	onal protection equipment:						
	Eye Protection: Safety glasses							
	-	ve Gloves:	Compatible chemical	-resistant gloves				
		rotective Clothing	-	0				
		tory Equipment	-	pirator, as conditions warrant.				
	(Specify							
			n Do not take internally					
	ce Prac	-	-		equipped with an eyewash a	nd a safety shower		

Wash thoroughly after handling.

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# SAFETY DATA SHEET JW 642

Page: 4 of 6

Revision: 04/22/2015

		No data available.		
	Se	ction 9. Physical and Chemical Properties		
.1	-	cal and Chemical Properties		
	Physical States:	[]Gas [X]Liquid []Solid		
	Appearance and Odor:	A solution in methyl acetate		
	Melting Point:	No data.		
	Boiling Point:	No data.		
	Flash Pt:	-10.00 C Method Used: Closed Cup		
	Evaporation Rate:	No data.		
	Explosive Limits:	LEL: 3.1% at 25.0 C UEL: 16.0% at 25.0 C		
	Vapor Pressure (vs. Air or	mm 173 MM_HG at 20.0 C		
	Hg):			
	Vapor Density (vs. Air = 1):	No data.		
	Specific Gravity (Water = 1	): No data.		
	Solubility in Water:	No data.		
	Autoignition Pt:	455.00 C		
).2	Other Information			
	Percent Volatile:	No data.		
	Molecular Formula & Weig	ht: C21H20F6N2O3 462.4		
		Section 10. Stability and Reactivity		
0.1	Reactivity:	No data available.		
0.2	Stability:	Unstable [ ] Stable [ X ]		
0.3	Stability Note(s):	Stable if stored in accordance with information listed on the product insert.		
		Will occur [ ] Will not occur [ X ]		
0.4	Conditions To Avoid:	heat, flames and sparks		
0.5	Incompatibility - Materials			
		alkalis		
	I	es		
	:	strong oxidizing agents		
0.6	Hazardous	carbon dioxide		
	Decomposition Or	carbon monoxide		
	Byproducts:			
	21			

# Cayman

# SAFETY DATA SHEET JW 642

Revision: 04/22/2015

			Section I	1. Toxicolog	ical Informa	ation		
11.1	Informat Toxicolo	tion on ogical Effects:	on on ical Effects:The toxicological effects of this product have not been thoroughly studied.Methyl Acetate - Toxicity Data: Oral LD50 (rat): >5,000 mg/kg; Oral LD50 (rabbit): 3,705 mg/kg; Skin LD50 (rabbit): >5,000 mg/kg; Inhalation TCLO (human): 15,000 mg/m3; Methyl Acetate - Irritation Data: Skin (rabbit): 500 mg (24h) mild; Eyes (rabbit): 100 mg (24h) moderate;					
	Chronic Effects:	Toxicological						
Carcir	nogenicity	<i>/</i> :						
CAS # Hazardous Com			ponents (Chemical Name)		NTP	IARC	ACGIH	OSHA
14161	33-89-5	JW 642			n.a.	n.a.	n.a.	n.a.
79	-20-9	Methyl acetate			n.a.	n.a.	n.a.	n.a.
			Section	12. Ecologic	al Informat	ion		
12.1	Toxicity	:	Avoid release inte	the environment.				
	-		Runoff from fire c	ontrol or dilution wa	ater may cause p	ollution.		
12.2	Persiste Degrada		No data available					
12.3		mulative	No data available					
12.4	Mobility	in Soil:	No data available	-				
12.5	Results assessn	of PBT and vPvB nent:	No data available	۱.				
12.6	Other ac	lverse effects:	No data available	۰.				
			Section 1	3. Disposal	Considerat	ions		
13.1	Waste D	isposal Method:		dance with local, sta				
			Section	14. Transpo	ort Informat	ion		
14.1		RANSPORT (US I r Shipping Name:	-	te Solution				
	от гторе	<ul> <li>Simpping Name:</li> </ul>						
	OT Hazar	d Class:	-	FLAMMABLE I				
D	OT Hazar N/NA Nun		3 1231	FLAMMABLE L	IQUID Packing Grou	ıp:	II	
D	N/NA Nun	nber:	3 1231 FLAMMABLE LOUID 3	FLAMMABLE L		ıp:	II	
D U 14.1	N/NA Nun LAND T		3 1231 FLAMMABLE LOUID 3			ıp:	II	
D U 14.1 A	N/NA Nun LAND T	nber: RANSPORT (Euro hipping Name:	3 1231 FLAMMARKE LIQUID 3 Oppean ADR/RID):			-	11	



# SAFETY DATA SHEET JW 642

## 14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name:	Methyl Acetate Solution				
UN Number:	1231	Packing Group:	II		
Hazard Class:	3 - FLAMMABLE LIQUID	IATA Classification:	3		
Additional Transport	Transport in accordance with loca	I, state, and federal regulations.			
Information:	When sold in quantities of less that	an or equal to 1 mL, or 1 g, with an	Excepted Quantity Code of		
	E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10.				
	Therefore packaging does not have	ve to be labeled as Dangerous Go	ods/Excepted Quantity.		

## Section 15. Regulatory Information

0.4.0.#		nents and Reauthorization Act o	-	0.004.50	
CAS #		ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
1416133-89-5	JW 642		No	No	No
79-20-9	Methyl acetate		No	No	No
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or	State Lists	
1416133-89-5	JW 642		CAA HAP,ODC: N PROP.65: No	lo; CWA NPDES: I	No; TSCA: No; CA
79-20-9	Methyl acetate			lo; CWA NPDES: I 8A PAIR; CA PRC	
Regulatory Info Statement:	ormation	This SDS was prepared in acco No.1272/2008.	rdance with 29 CFR	1910.1200 and Re	gulation (EC)
		Section 16. Oth	ner Informatio	n	
Revision Date:		04/22/2015			
Additional Info This Product:	rmation About	No data available.			
Company Polic	cy or Disclaimer:	DISCLAIMER: This information currently available to us. Howev express or implied, with respect use. Users should make their o their particular purposes.	er, we make no warr to such information,	anty of merchantab and we assume no	ility or any other warranty liability resulting from its

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