

MATERIAL SAFETY DATA SHEET (MSDS)

		SECTION 1: Identification
1.1	Product identifiers	
	Product Name :	Dimethyl Acetamide
	Cat No.:	D160-1
	CAS No. :	127-19-5
1.2	Relevant identified uses of th	e substance or mixture and uses advised against
	Recommended uses :	Laboratory chemicals
	Uses advised against:	Food, drug, pesticide or biocidal product use.
1.3	Details of the supplier of the	safety data sheet
	Company :	Krishna Solvechem Limited.
		B/503, Sahayog, S. V. Road,
		Kandivali (West), Mumbai – 400067. India.
	Telephone :	+91-22-6123 0222
	Email :	exports@kscl.co.in
1.4	Emergency telephone numbe	r
	Emergency Phone :	+91-8657457330

SECTION 2: Hazards identification

2.1 Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	(Category 4)
Acute dermal toxicity	(Category 4)
Serious Eye Damage/Eye Irritation	(Category 2)
Acute inhalation toxicity – vapors	(Category 4)
Reproductive toxicity	(Category 1B)

2.2 Label elements

 Pictogram :
 Image: Constraint of the statement of the statemen



	Combustible liquid
	Causes serious eye irritation
	May damage the unborn child
Precautionary statement (s)	
Prevention	
	Obtain special instructions before use Do not handle until all safety precautions have been
	read and understood Use personal protective equipment as required Wash face, hands and any exposed skin thoroughly after handling
	Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapors/spray
	Use only outdoors or in a well-ventilated area Keep away from heat/sparks/open flames/hot surfaces No smoking
	Inhalation :
	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER o doctor/physician if you feel unwell
	IF ON SKIN (or hair):
	If skin irritation occurs: Get medical advice/attention IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse
	Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attentio
	Fire
	In case of fire: Use CO2, dry chemical, or foam for extinction

Store locked up Store in a well-ventilated place. Keep cool



Disposal:

Hazards not otherwise classified (HNOC) Dispose of contents/container to an approved waste disposal plant None identified. WARNING : Reproductive Harm

SECTION 3: Composition / information on ingredients

3.1								
	Component	CAS-No	Weight %					
	Dimethyl acetamide	127-19-5	>95					
	SEC	CTION 4: First aid measures						
4.1	Description of first aid measu	res						
	General Advice:	If symptoms persist, call a phys	sician.					
	If inhalation : Remove to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of apocket mask equipped with a one-way valve or other proper respiratory medical device.Immediate medical attention is required.							
	In case of skin contact :	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.						
	In case of eye contact :	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.						
	Ingestion :	Do NOT induce vomiting. Call a center immediately.	physician or poison control					
4.2	Most important symptoms and effects :	Inhalation of high vapor concer like headache, dizziness, tiredn						
4.3	Notes to Physician :	Treat symptomatically						
	SEC	CTION 5: Firefighting effects	;					
5.1	Extinguishing media							
	Suitable extinguishing media :	Water spray, carbon dioxide (C resistant foam. Water mist may containers.						
	Unsuitable Extinguishing Media: :	No information available						
5.2	Flash Point : Method :	70 °C / 158 °F No information available						



			rces of ignition. The se of irritating gase	•				
	Hazardous Combustion Products :	Carbon monoxide (CO). Carbon dioxide (CO2). Nitrogen oxides						
5.4	Protective Equipment and Precautions for Firefighters:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.						
				[
	NFPA:	Health	Flammability	Instability	Physical hazards			

6.2 Environmental precautions

Should not be released into the environment. See section 12 for additional Ecological Information

6.3 Methods and materials for containment and cleaning up

Keep in suitable, closed containers for disposal. Soak up with inert absorbent material.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe mist/vapors/spray. Do not ingest. If swallowed then seek immediate medical assistance.



7.2 Conditions for safe storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flame. Keep under nitrogen. Store under an inert atmosphere. Keep container tightly closed in a dry and well-ventilated place. Protect from moisture. Incompatible Materials. Strong oxidizing agents. Aldehydes. Peroxides. Strong acids.

SECTION 8: Exposure controls/personal protection

8.1 Exposure Guidelines

8.1										
C	omponent	ACGIH TLV	OSHA PEL	NIOSH	Mexico OEL (TWA)					
	imethyl cetamide	TWA: 10 ppm Skin	(Vacated) TWA: 10 ppm (Vacated) TWA: 35 mg/m ³ Skin TWA: 10 ppm TWA: 35 mg/m ³	IDLH: 300 ppm TWA: 10 ppm TWA: 35 mg/m ³	TWA: 10 ppm					
	Engineering N	Veasures								
	Use explosion-proof electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.									
8.2	Exposure con									
	EN166. Skin pro Wear ap Respira Follow t 149. Uso limits an Hygiene	otection and body opropriate protect tory protection the OSHA respirate a NIOSH/MSHA re exceeded or if in the Measures	ection regulations in 29 r protection rive gloves and clothing or regulations found in 2 or European Standard E rritation or other sympt h good industrial hygier	to prevent skin exp 29 CFR 1910.134 or N 149 approved re oms are experience	oosure. European StandardEN spirator if exposure ed.					
		SECTION 9	Physical and chemi	cal properties						
9.1	Information of	on basic physical a	and chemical properties	s						
	a) Appearan	ce	Colorless Liquid							
	b) Odour		Ammonia -like							
	c) Odour Thr	eshold	No information availab	le						
	d) pH		4 200 g/l aq. sol							
	e) Melting po point	oint / freezing	-20 °C / -4 °F							
	f) Initial boili	ng point and	164 - 166 °C / 327.2	- 330.8 °F @ 760	mmHg					



boiling range	
g) Flash point	70 °C / 158 °F
h) Evaporation rate	<0.17 (Butyl Acetate = 1.0)
i) Flammability (solid, gas)	Not applicable
j) Upper/lower	11.5 vol%
flammability or	1.7 vol%
explosive limits	
k) Vapour pressure	1.7 mbar @ 25 °C
l) Vapour density	3.02
m) Specific Gravity	0.937
n) Solubility	Soluble in water
o) Partition coefficient: n	No data available
octanol/water	
p) Auto-ignition	490 °C / 914 °F
temperature	
q) Decomposition	No information available
temperature	
r) Viscosity	1.02 mPa s @ 20 °C
s) Molecular formula	C4 H9 N O
t) Molecular Weight	87.12

SECTION 10: Stability and Reactivity

10.1	Reactive Hazard :	None known, based on information available
10.2	Chemical stability :	Stable under normal conditions.
10.3	Possibility of hazardous reactions :	None under normal processing.
10.4	Conditions to avoid :	Keep away from open flames, hot surfaces and sources of ignition. Excess heat. Exposure to moist air or water. Incompatible products.
10.5	Incompatible materials:	Strong oxidizing agents, Strong acids, Aldehydes, Peroxides
10.6	Hazardous decomposition products :	Carbon monoxide (CO), Carbon dioxide (CO2), Nitrogen oxides
10.7	Hazardous Polymerization	Hazardous polymerization does not occur



SECTION 11: Toxicological information									
11.1 Information on toxic <u>Acute toxicity:</u> Product Information Component Informat	ological ef :								
Component		Oral			LD50 Dermal	LCS	LC50 Inhalation		
Dimethyl acetamide		= 4263 mg/kg	(Rat)						
Toxicologically Synergistic Products No information available									
	-		ell as cl	hroni	c effects from s	hort and lo	ng-term expos	sure	
Irritation : Sensitization:					ing to eyes formation availa	ble			
Carcinogenicity : The table below indicates whether each agency ha Any ingredient as a carcinogen.								y ha	
Component	CAS-No	IARC	NT	Έ	ACGIH	OSHA	Mexico		
Dimethyl acetamide	127-19- 5	Group 2B	Not listed		A3	Х	Not listed		
Mutagenic Effe	ects:		No	t mut	agenic in AMES	Test			
Reproductive E				May cause harm to the unborn child					
Developmenta	l Effects :		No	No information available.					
Teratogenicity	:		No	No information available.					
STOT - single e	xposure :		No	None known					
STOT - repeate	d exposur	e:	No	None known					
Aspiration haza	ard :		No	No information available.					
Symptoms / e delayed:	syr	Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting							
Endocrine Disr	uptor Info	rmation :	No	No information available					
Other Adverse	Effects :			The toxicological properties have not been fully investigated.					



SECTION 12: Ecological information

	oxicity:			pty into di	rains.				
Со	mponent	Freshwater Al	gae Freshwater	Fish	Microtox	Water Flea			
	nethyl	EC50 >500	Not listed		EC50 = 2393 mg/L 30				
ace	etamide	mg/L/72h		min EC50 = 4815 m mg/L 5 min					
12.2	Persistence a	nd degradabi	lity: Persistence	y: Persistence is unlikely					
	Bioaccumulat Accumulation	-	No informa	ation avail	able				
12.3	Mobility:		Will likely k solubility.			nt due to its water			
13.1	Waste treatme		CTION 13: Dispos			vhether a discarded			
13.1	chemical is cla	ent methods: assified as a h	Chemical waste ge	enerators hemical w	must determine w aste generators m	nust also consult loc			
13.1	chemical is cla regional, and	e nt methods: assified as a h national haza	Chemical waste ge azardous waste. Ch	enerators hemical w ations to e	must determine w aste generators m ensure complete a	nust also consult loc			
13.1 v 14.1	chemical is cla regional, and classification. DOT : CO A	ent methods: assified as a h national haza SE OMBUSTIBLE ccording to 4	Chemical waste ge azardous waste. Ch rdous waste regula CTION 14: Trans LIQUID, NOT REGU	enerators hemical w ations to e port info JLATED FC 1), this ma	must determine w vaste generators m ensure complete a prmation DR TRANSPORT IN oterial should recla	nust also consult loc ind accurate			
	chemical is cla regional, and classification. DOT : CO A	ent methods: assified as a h national haza SE OMBUSTIBLE ccording to 4	Chemical waste ge azardous waste. Ch irdous waste regula CTION 14: Trans LIQUID, NOT REGU 9 CFR §173.150(f)(1	enerators hemical w ations to e port info JLATED FC 1), this ma	must determine w vaste generators m ensure complete a prmation DR TRANSPORT IN oterial should recla	nust also consult loc ind accurate THIS QUANTITY			
	chemical is cla regional, and classification. DOT : CO A CO	ent methods: assified as a h national haza SE OMBUSTIBLE ccording to 4 ombustible Li	Chemical waste ge azardous waste. Ch rdous waste regula CTION 14: Trans LIQUID, NOT REGU 9 CFR §173.150(f)(1 quid, NOS if it is sh	enerators hemical w ations to e port info JLATED FC 1), this ma ipped in b	must determine w vaste generators m ensure complete a prmation DR TRANSPORT IN oterial should recla	nust also consult loc ind accurate THIS QUANTITY			
	chemical is clar regional, and classification. DOT: CC A A CO UN-NO	ent methods: assified as a h national haza SE OMBUSTIBLE ccording to 4 ombustible Li bing Name	Chemical waste ge azardous waste. Ch irdous waste regula CTION 14: Trans LIQUID, NOT REGU 9 CFR §173.150(f)(1 quid, NOS if it is sh NA1993	enerators hemical w ations to e port info JLATED FC 1), this ma ipped in b	must determine w vaste generators m ensure complete a prmation DR TRANSPORT IN oterial should recla	nust also consult loc ind accurate THIS QUANTITY			
14.1	chemical is cla regional, and classification. DOT : CO A UN – No Proper shipp	ent methods: assified as a h national haza SE OMBUSTIBLE ccording to 4 ombustible Li bing Name	Chemical waste ge azardous waste. Ch rdous waste regula CTION 14: Trans LIQUID, NOT REGU 9 CFR §173.150(f)(1 quid, NOS if it is sh NA1993 Combustible liquid	enerators hemical w ations to e port info JLATED FC 1), this ma ipped in b	must determine w vaste generators m ensure complete a prmation DR TRANSPORT IN oterial should recla	nust also consult loc ind accurate THIS QUANTITY			
	chemical is cla regional, and classification. DOT : CC A CO UN – No Proper ship Packing grou	ent methods: assified as a h national haza SE OMBUSTIBLE ccording to 4 ombustible Li bing Name	Chemical waste ge azardous waste. Ch irdous waste regula CTION 14: Trans LIQUID, NOT REGU 9 CFR §173.150(f)(1 quid, NOS if it is sh NA1993 Combustible liquid III	enerators hemical w ations to e port info JLATED FC 1), this ma ipped in b	must determine w vaste generators m ensure complete a prmation DR TRANSPORT IN oterial should recla	nust also consult loc ind accurate THIS QUANTITY			

SECTION 15: Regulatory information

15.1 United states of America Inventory:

Component	CAS-No	TSCA	TSCA Inventory notification Active/Inactive	TSCA - EPA Regulatory Flags
Dimethyl	127-19-5	Х	ACTIVE	-
acetamide				

Legend:



TSCA - Toxic Substances Control Act, (40 CFR Part 710)
X - Listed
'-' - Not Listed
TSCA 12(b) - Notices of Export Not applicable

International Inventories:

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan(ISHL), Australia(AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Dimethyl acetamide	127- 19-5	х	-	204-826-4	Х	Х	Х	х	Х	KE-11114

U.S. Federal Regulations

SARA 313

SARA 311/312 Hazard Categories

CWA (Clean Water Act)

Clean Air Act

OSHA - Occupational Safety and Health Administration

CERCLA

Not applicable

Not applicable

Not applicable

Not applicable

Not applicable

California Proposition 65

This product contains the following Proposition 65chemicals.

See section 2 for more information

Component	CAS No	California Prop. 65	Prop 65 NSRL	Category
Dimethyl	127-19-5	Carcinogen	-	Developmental
acetamide		Developmental		Carcinogen
		Male		
		Reproductive		

15.2 U.S. State Right-to-Know Regulations:

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Dimethyl acetamide	Х	х	Х	Х	Х

U.S. Department of Transportation

Reportable Quantity (RQ): N



DOT Marine Pollutant N DOT Severe Marine Pollutant N

U.S. Department of Homeland - This product does not contain the any DHS Chemicals. **Security**

_	ico – Grade ty, health and envirc	onmental regulatio		pecific for the sub	ostance or mixtur		
Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)		
Dimethyl acetamide	127-19-5	Listed	Not applicable	Not applicable	Not applicable		
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantitiesfor Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantitiesfor Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)		
Dimethyl acetamide	127-19-5	Not applicable	Not applicable	Not applicable	Not applicable		
16.1 Prepared By: Email: Creation Date:		Regulatory affairs Krishna Solvechem Limited exports@kscl.co.in 23-Mar-2012					
Print	sion Date: : Date: sion Summary:	19-Jun-2023 19-Jun-2023 This document has been updated to comply with the US OSH/ HazCom 2012 Standard replacing the current legislation under29 C F R 1910.1200 to align with the Globally Harmonized System ofClassification and Labeling of Chemicals (GHS).					
16.2 Discla	aimer:						

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.