

CAS No: 67-56-1 MSDS

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier	
Product form	: Substance
Trade name	: METHANOL SEMICONDUCTOR GRADE
EC index no	: 603-001-00-X
EC no	: 200-659-6
CAS No	: 67-56-1
Product code	: 0196A
Formula	: CH4O

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Use of the substance/mixture

: Laboratory chemicals, Manufacture of substances

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP] Flammable liquids, H225 Category 2 Acute toxicity (dermal), H311 Category 3 Acute toxicity (inhal.), H331 Category 3 H301 Acute toxicity (oral), Category 3 Specific target organ H370 toxicity - single exposure, Category 1

Full text of classification categories and H statements : see section 16

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Classification according to Directive 67/548/EEC or 1999/45/EC

F; R11 T; R23/24/25 T; R39/23/24/25 Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) GHS06 GHS02 GHS08 Signal word (CLP) : Danger Hazard statements (CLP) : H225 - Highly flammable liquid and vapour H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled H370 - Causes damage to organs Precautionary statements (CLP) : P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking P260 - Do not breathe dust/fume/gas/mist/vapours/spray P280 - Wear protective gloves/protective clothing/eye protection/face protection P301+P310 - IF SWALLOWED: immediately call a POISON CENTER or doctor/physician P311 - Call a POISON CENTER or doctor/physician

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on	i ingredients
3.1. Substance	
Name	: METHANOL SEMICONDUCTOR GRADE
CAS No	: 67-56-1
EC no	: 200-659-6
EC index no	: 603-001-00-X

Full text of R- and H-phrases: see section 16

3.2. Mixture

Not applicable

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SECTION 4: First aid measures

4.1. Description of first aid measure	S
First-aid measures general	: Call a POISON CENTER or doctor/physician. Specific treatment (see on this label).
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Immediately call a POISON CENTER or doctor/physician. Wash with plenty of soap and water. Specific measures (see on this label). Wash contaminated clothing before reuse.
First-aid measures after eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes.
First-aid measures after ingestion	: Rinse mouth. Obtain emergency medical attention. Immediately call a POISON CENTER or doctor/physician. Specific treatment (see on this label).
4.2. Most important symptoms and e	effects, both acute and delayed
Symptoms/injuries	: Causes damage to organs.
Symptoms/injuries after skin contact	: Repeated exposure to this material can result in absorption through skin causing significant health hazard. Toxic in contact with skin.
Symptoms/injuries after ingestion	: Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard.
4.3. Indication of any immediate me	dical attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	

Suitable	extinguishing media	:	dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2). earth, sand, dry chemical powder or foam. Water spray.
5.2.	Special hazards arising from the	s	ubstance or mixture
Fire haz	ard	:	Highly flammable liquid and vapour.
Explosio	on hazard	:	May form flammable/explosive vapour-air mixture.
5.3.	Advice for firefighters		
Protecti	on during firefighting	:	Do not attempt to take action without suitable protective equipment.
SECTIC	ON 6: Accidental release measures	5	
6.1.	Personal precautions, protective) e	equipment and emergency procedures
General	measures	:	Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking.
6.1.1.	For non-emergency personnel		
Emerge	ncy procedures	:	Evacuate unnecessary personnel.
6.1.2.	For emergency responders		
Protecti	ve equipment	:	Avoid breathing dust/fume/gas/mist/vapours/spray.
6.2.	Environmental precautions		
Avoid re	elease to the environment.		

6.3.	Methods and material for contain	nment and cleaning up	
Methods	for cleaning up	: Collect spillage. On land, sweep or shovel into suitable containers. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.	

6.4.	Reference	to other	sections

No additional information available

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7.1. Precautions for safe handling	9
Additional hazards when processed	: Handle empty containers with care because residual vapours are flammable.
Precautions for safe handling	 No naked lights. No smoking. Use only non-sparking tools. Do not breathe dust/fume/gas/mist/vapours/spray.
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash thoroughly after handling.
7.2. Conditions for safe storage,	including any incompatibilities
Technical measures	 Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/ equipment.
Storage conditions	: Keep in fireproof place. Keep container tightly closed.
Incompatible materials	: Heat sources.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/perso	

No additional information available

8.2. Exposure controls	
Hand protection	: protective gloves
Eye protection	: Chemical goggles or safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended
SECTION 9: Physical and chemical pro	perties
SECTION 9: Physical and chemical pro 9.1. Information on basic physical	
9.1. Information on basic physical	and chemical properties

Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available

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Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Highly flammable liquid and vapour
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
_og Pow	: No data available
Viscosity, kinematic	: No data available
/iscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
9.2. Other information No additional information available	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Highly flammable liquid and vapour. M	ay form flammable/explosive vapour-air mixture.
10.3. Possibility of hazardous rea	actions
No additional information available	
10.4. Conditions to avoid	
Open flame. Direct sunlight.	
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition	products
May release flammable gases.	

11.1.	Information on toxicologica	effects
Acute to	xicity	: Dermal: Toxic in contact with skin. Inhalation: Toxic if inhaled. Oral: Toxic if swallowed.
Skin cor	rosion/irritation	: Not classified
Serious	eye damage/irritation	: Not classified
Respirat	ory or skin sensitisation	: Not classified
Germ ce	Il mutagenicity	: Not classified

Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Causes damage to organs.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential adverse human health effects and symptoms	: Toxic if swallowed. Toxic in contact with skin.
SECTION 12: Ecological information	
12.1. Toxicity	
No additional information available	
No additional information available	
No additional information available 12.3. Bioaccumulative potential	
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No additional information available 12.3. Bioaccumulative potential No additional information available 12.4. Mobility in soil No additional information available 12.5. Results of PBT and vPvB asser No additional information available 12.6. Other adverse effects No additional information available 12.6. Other adverse effects No additional information available SECTION 13: Disposal considerations 13.1. Waste treatment methods	
No additional information available 12.3. Bioaccumulative potential No additional information available 12.4. Mobility in soil No additional information available 12.4. Mobility in soil No additional information available 12.5. Results of PBT and vPvB asset No additional information available 12.6. Other adverse effects No additional information available SECTION 13: Disposal considerations 13.1. Waste treatment methods Product/Packaging disposal	ssment : Dispose of contents/container to
No additional information available 12.3. Bioaccumulative potential No additional information available 12.4. Mobility in soil No additional information available 12.5. Results of PBT and vPvB asset No additional information available 12.5. Results of PBT and vPvB asset No additional information available 12.6. Other adverse effects No additional information available SECTION 13: Disposal considerations	

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

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14.1. UN number	
UN-No. (ADR)	: 1230
UN-No. (IMDG)	: 1230
UN-No.(IATA)	: 1230
UN-No.(ADN)	: 1230
UN-No. (RID)	: 1230
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: METHANOL
Proper Shipping Name (IMDG)	: METHANOL
Proper Shipping Name (IATA)	: METHANOL
Proper Shipping Name (ADN)	: METHANOL
Proper Shipping Name (RID)	: METHANOL
Transport document description (ADR)	: UN 1230 METHANOL, 3 (6.1), II, (D/E)
Transport document description (IMDG)	: UN 1230 METHANOL, 3 (6.1), II (12°C c.c.)
Transport document description (IATA)	: UN 1230 METHANOL, 3 (6.1), II
Transport document description (ADN)	: UN 1230 METHANOL, 3 (6.1), II
Transport document description (RID)	: UN 1230 METHANOL, 3 (6.1), II
14.3. Transport hazard class(es) ADR	
Transport hazard class(es) (ADR)	: 3 (6.1)
Danger labels (ADR)	: 3, 6.1
	. 0, 0.1
IMDG	
Transport hazard class(es) (IMDG)	: 3 (6.1)
Danger labels (IMDG)	: 3, 6.1
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: 3 (6.1)
Hazard labels (IATA)	: 3, 6.1
ADN	
Transport hazard class(es) (ADN)	: 3 (6.1)
Danger labels (ADN)	: 3, 6.1
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RID

Transport hazard class(es) (RID) Danger labels (RID)



: 3 (6.1)

: 3, 6.1

14.4. Packing group	
Packing group (ADR)	: 11
Packing group (IMDG)	: 11
Packing group (IATA)	: 11
Packing group (ADN)	: 11
Packing group (RID)	: 11
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No

Other information	: No supplementary information available

14.6. Special precautions for user		
- Overland transport		
Classification code (ADR)	:	FT1
Special provision (ADR)	:	279
Limited quantities (ADR)	:	1L
Excepted quantities (ADR)	:	E2
Packing instructions (ADR)	:	P001, IBC02
Mixed packing provisions (ADR)	:	MP19
Portable tank and bulk container instructions (ADR)	:	Τ7
Portable tank and bulk container special provisions (ADR)	:	TP2
Tank code (ADR)	:	L4BH
Tank special provisions (ADR)	:	TU15
Vehicle for tank carriage		FL
Transport category (ADR)		2
Special provisions for carriage - Loading, unloading and handling (ADR)	:	CV13, CV28
Special provisions for carriage - Operation (ADR)	:	S2, S19
Hazard identification number (Kemler No.)	:	336
Orange plates	:	336
		1230
Tunnel restriction code (ADR)	:	D/E
EAC code	:	•2WE

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APP code	: A(fl)		
- Transport by sea			
Special provision (IMDG)	: 279		
Limited quantities (IMDG)	: 1 L		
Excepted quantities (IMDG)	: E2		
Packing instructions (IMDG)	: P001		
IBC packing instructions (IMDG)	: IBC02		
Tank instructions (IMDG)	: T7		
Tank special provisions (IMDG)	: TP2		
EmS-No. (Fire)	: F-E		
EmS-No. (Spillage)	: S-D		
Stowage category (IMDG)	: B		
Stowage and handling (IMDG)	: SW2		
Flash point (IMDG)	: 12°C c.c.		
MFAG-No	: 131		
MFAG-NO	. 131		
- Air transport	50		
PCA Excepted quantities (IATA)	: E2		
PCA Limited quantities (IATA)	: Y341		
PCA limited quantity max net quantity (IATA)	: 1L		
PCA packing instructions (IATA)	: 352		
PCA max net quantity (IATA)	: 1L		
CAO packing instructions (IATA)	: 364		
CAO max net quantity (IATA)	: 60L		
Special provision (IATA)	: A104, A113		
ERG code (IATA)	: 3L		
- Inland waterway transport			
Classification code (ADN)	: FT1		
Special provisions (ADN)	: 279, 802		
Limited quantities (ADN)	: 1L		
Excepted quantities (ADN)	: E2		
Carriage permitted (ADN)	: T		
Equipment required (ADN)	: PP, EP, EX, TOX, A		
Ventilation (ADN)	: VE01, VE02		
Number of blue cones/lights (ADN)	: 2		
	. 4		
- Rail transport			
Classification code (RID)	: FT1		
Special provision (RID)	: 279		
Limited quantities (RID)	: 1L		
Excepted quantities (RID)	: E2		
Packing instructions (RID)	: P001, IBC02		
Mixed packing provisions (RID)	: MP19		
Portable tank and bulk container instructions (RID)	: T7		
Portable tank and bulk container special provisions (RID)	: TP2		
Tank codes for RID tanks (RID)	: L4BH		
Special provisions for RID tanks (RID)	: TU15		
Transport category (RID)	: 2		
Special provisions for carriage – Loading and unloading (RID)	: CW13, CW28		
Colis express (express parcels) (RID)	: CE7		
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Hazard identification number (RID) : 336

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

METHANOL SEMICONDUCTOR GRADE is not on the REACH Candidate List METHANOL SEMICONDUCTOR GRADE is not on the REACH Annex XIV List

15.1.2. National regulations

Germany	
AwSV/VwVwS Annex reference	: Water hazard class (WGK) 1, slightly hazardous to water (Classification according to VwVwS, Annex 2; WGK No 145)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

Denmark

Recommendations Danish Regulation	: Young people below the age of 18 years are not allowed to use the product
	Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Flam. Liq. 2	Flammable liquids, Category 2
STOT SE 1	Specific target organ toxicity — single exposure, Category 1
H225	Highly flammable liquid and vapour
H301	Toxic if swallowed
H311	Toxic in contact with skin
H331	Toxic if inhaled

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H370	Causes damage to organs
R11	Highly flammable
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed
R39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed
F	Highly flammable
Т	Тохіс

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product