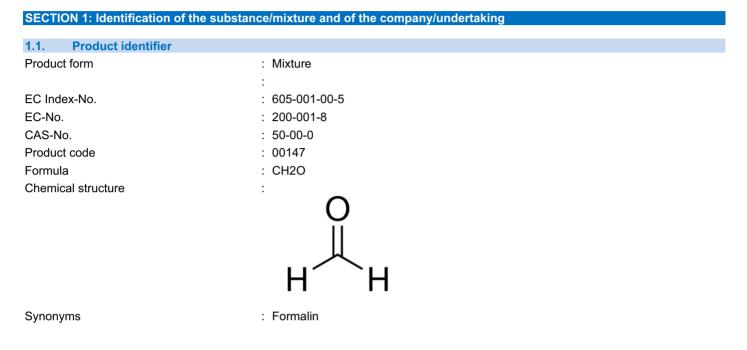


CAS-No.: 50-00-0 MSDS

MATERIAL SAFETY DATA SHEET (MSDS)



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

1.2.1. Relevant identified uses

Industrial/Professional use spec

: Industrial For professional use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

CHEMIECALL JI. Diklat Pemda, Dukuh Pinang No. 24 RT.001/003 Kel. Bojong Nangka Kec. Kelapa Dua Tangerang 15821 Contact: +62(21) 54210228

info@chemiecall.com www.chemiecall.com

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral),	H301
Category 3 Acute toxicity (dermal),	H311
Category 3 www.chemiecall.com	

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Acute toxicity (inhal.),	H331
Category 3	
Skin corrosion/irritation,	H314
Category 1B	11040
Serious eye damage/eye	H318
irritation, Category 1 Skin sensitisation.	H317
Category 1	пэт <i>і</i>
Carcinogenicity, Category	H351
2	11001
Specific target organ	H370
toxicity — Single	
exposure, Category 1	
Specific target organ	H335
toxicity — Single	
exposure, Category 3,	
Respiratory tract irritation	

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements	
Labelling according to Regulation (EC) No	o. 1272/2008 [CLP]
Hazard pictograms (CLP)	
	GHS05 GHS06 GHS08
Signal word (CLP)	: Danger
Hazard statements (CLP)	 H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled H314 - Causes severe skin burns and eye damage. H317 - May cause an allergic skin reaction. H335 - May cause respiratory irritation. H351 - Suspected of causing cancer. H370 - Causes damage to organs.
Precautionary statements (CLP)	 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/doctor P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER/doctor

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Water	(CAS-No.) 7732-18-5 (EC-No.) 231-791-2	50 - 55	Not classified
Formaldehyde	(CAS-No.) 50-00-0 (EC-No.) 200-001-8 (EC Index-No.) 605-001-00-5	37 - 38	Acute Tox. 2 (Dermal), H310 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Oral), H301 Skin Corr. 1B, H314 Eye Dam. 1, H318 Carc. 2, H351 STOT SE 3, H335 Skin Sens. 1, H317
Methanol	(CAS-No.) 67-56-1 (EC-No.) 200-659-6 (EC Index-No.) 603-001-00-X	8 - 12	Flam. Liq. 2, H225 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Oral), H301 STOT SE 1, H370

Full text of H-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measure	9 5
First-aid measures general	: Suspected of causing cancer.
First-aid measures after inhalation	 Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. Call a POISON CENTER/doctor if you feel unwell.
First-aid measures after skin contact	: Immediately call a POISON CENTER/doctor. Specific measures (see supplemental first aid instruction on this label). Gently wash with plenty of soap and water. Take o ff immediately all contaminated clothing. Wash contaminated clothing before reuse. Rinse skin with water/shower. Wash with plenty of water/ If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instruction on this label).
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
First-aid measures after ingestion	: Rinse mouth. Immediately call a POISON CENTER/doctor. Specific treatment (see supplemental first aid instruction on this label). Do NOT induce vomiting.
4.2. Most important symptoms and	effects, both acute and delayed
Symptoms/effects	: Causes severe skin burns and eye damage. Causes damage to organs.
Symptoms/effects after inhalation	: May cause an allergic skin reaction. May cause respiratory irritation.
Symptoms/effects after skin contact	: Fatal in contact with skin.
Symptoms/effects after eye contact	: Causes serious eye damage.
Symptoms/effects after ingestion	: Toxic if swallowed.
Cymptoma/eneous alter myestion	. TOXIC II Swallowed.

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4.3. Indication of any immediate medical attention and special treatment needed		
Treat symptomatically.		
SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media Unsuitable extinguishing media	Water spray. Foam. Dry powder. Carbon dioxide.Do not use a heavy water stream.	
5.2. Special hazards arising from the	substance or mixture	
No additional information available		
5.3. Advice for firefighters		
Protection during firefighting	: Do not attempt to take action without suitable protective equipment.	
SECTION 6: Accidental release measures	3	
6.1. Personal precautions, protective	equipment and emergency procedures	
6.1.1. For non-emergency personnel		
Emergency procedures	: Evacuate unnecessary personnel.	
6.1.2. For emergency responders		
Protective equipment Emergency procedures	: Use personal protective equipment as required.: Ventilate area. Stop release.	
6.2. Environmental precautions		
Avoid release 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		
SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling	: Do not get in eyes, on skin, or on clothing. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid breathing dust/fume/gas/mist/vapours/spray. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area.	
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace.	
7.2. Conditions for safe storage, incl	uding any incompatibilities	
Technical measures	: Comply with applicable regulations.	
Storage conditions	: Keep container tightly closed.	
7.3. Specific end use(s)		
No additional information available		
SECTION 8: Exposure controls/personal	protection	
8.1. Control parameters		
No additional information available		

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8.2. Exposure controls	
Hand protection	: protective gloves
Eye protection	: Chemical goggles or face shield
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: Wear respiratory protection.
SECTION 9: Physical and chemical prop	erties
9.1. Information on basic physical a	
Physical state	: Liquid
Colour	: Clear Colorles.
Odour	: Pungent.
Odour threshold	: No data available
рН	: 2.8
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: -150 °C
Freezing point	: No data available
Boiling point	: 96 °C
Flash point	: 64 °C
Auto-ignition temperature	: 300 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: 1.3 mm Hg at 20°C
Relative vapour density at 20 °C	: 1.04
Relative density	: No data available
Density Solubility	: 1.08 g/cm ³ : Water: Infinitely soluble
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: 0.07 - 0.73 vol %

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SECTI	ON 10: Stability and reactivity
10.1.	Reactivity
No add	litional information available
10.2.	Chemical stability
Stable	under normal conditions.
10.3.	Possibility of hazardous reactions
No add	litional information available
10.4.	Conditions to avoid
Direct	sunlight. Overheating. Open flame. Heat.

10.5. Incompatible materials No additional information available

10.6. Hazardous decomposition products

Thermal decomposition generates : Corrosive vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled.

ATE CLP (oral)	100 mg/kg bodyweight
ATE CLP (dermal)	300 mg/kg bodyweight
ATE CLP (gases)	700 ppmv/4h
ATE CLP (vapours)	3 mg/l/4h
ATE CLP (dust,mist)	0.5 mg/l/4h

Skin corrosion/irritation	: Causes severe skin burns and eye damage. pH: 2.8
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitisation	pH: 2.8 : May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Suspected of causing cancer.
Reproductive toxicity	: Not classified
STOT-single exposure	: Causes damage to organs. May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Potential adverse human health effects and symptoms	: Toxic if swallowed. Fatal in contact with skin.

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SECTION 12: Ecological information	
12.1. Toxicity	
No additional information available	
12.2. Persistence and degradabili	ty
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 as	sessment
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal consideration	IS
13.1. Waste treatment methods	
Product/Packaging disposal	: Dispose of contents/container to hazardous or special waste collection point, in
recommendations	accordance with local, regional, national and/or international regulation.
Ecology - waste materials	: Hazardous waste due to toxicity.
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG /	
In accordance with ADR / RID / IMDG /	
14.1. UN number	
UN-No. (ADR)	: 2209
UN-No. (IMDG)	: 2209
UN-No. (IATA) UN-No. (ADN)	: 2209 : 2209
UN-No. (RID)	: 2209
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: FORMALDEHYDE SOLUTION
Proper Shipping Name (IMDG)	: FORMALDEHYDE SOLUTION

Proper Shipping Name (IMDG)	: FORMALDEHYDE SOLUTION
Proper Shipping Name (IATA)	: Formaldehyde solution
Proper Shipping Name (ADN)	: FORMALDEHYDE SOLUTION
Proper Shipping Name (RID)	: FORMALDEHYDE SOLUTION
Transport document description (ADR)	: UN 2209 FORMALDEHYDE SOLUTION, 8, III, (E)
Transport document description (IMDG)	: UN 2209 FORMALDEHYDE SOLUTION, 8, III
Transport document description (IATA)	: UN 2209 Formaldehyde solution, 8, III
Transport document description (ADN)	: UN 2209 FORMALDEHYDE SOLUTION, 8, III
Transport document description (RID)	: UN 2209 FORMALDEHYDE SOLUTION, 8, III

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14.3. Transport hazard class(es)	
ADR	: 8
Transport hazard class(es) (ADR) Danger labels (ADR)	. o : 8
	8
	×
IMDG	
Transport hazard class(es) (IMDG)	: 8
Danger labels (IMDG)	: 8
	8
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: 8
Hazard labels (IATA)	: 8
	8
ADN	
Transport hazard class(es) (ADN)	: 8
Danger labels (ADN)	: 8
	8
RID	
Transport hazard class(es) (RID)	: 8
Danger labels (RID)	: 8
	·
	8
14.4. Packing group	
Packing group (ADR)	: III
Packing group (IMDG)	: 111
Packing group (IATA)	
Packing group (ADN) Packing group (RID)	: III : III

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I4.5. Environmental hazards Dangerous for the environment Marine pollutant	
-	: No
	: No
Other information	: No supplementary information available
14.6. Special precautions for user	
Overland transport	
Classification code (ADR)	: C9
Special provisions (ADR)	: 533
_imited quantities (ADR)	: 51
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container nstructions (ADR)	: T4
Portable tank and bulk container special provisions (ADR)	: TP1
Tank code (ADR)	: L4BN
/ehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Packages ADR)	: V12
Hazard identification number (Kemler No.)	: 80
Drange plates	80 2209
Funnel restriction code (ADR)	: E
EAC code	: •2X
Transport by sea	
Packing instructions (IMDG)	: P001, LP01
BC packing instructions (IMDG)	: IBC03
Fank instructions (IMDG)	: T4
Fank special provisions (IMDG)	: TP1
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-B
Stowage category (IMDG)	: A
Properties and observations (IMDG)	 Colourless, clear liquid, with a suffocating pungent odour. Usually stabilized with methyl alcohol. Miscible with water. Causes burns to skin, eyes and mucous membranes.
MFAG-No	: 132

ERG code (IATA)
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(IATA)

PCA Excepted quantities (IATA)

PCA packing instructions (IATA)

CAO packing instructions (IATA)

PCA max net quantity (IATA)

CAO max net quantity (IATA)

Special provisions (IATA)

PCA limited quantity max net quantity

PCA Limited quantities (IATA)

: E1

: 1L

: 852

: 856

: 60L

: 8i

: A803

: 5L

: Y841

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Inland waterway transment	
- Inland waterway transport	
Classification code (ADN)	: C9
Special provisions (ADN)	: 533
Limited quantities (ADN)	: 5 L
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	: Т
Equipment required (ADN)	: PP, EP
Number of blue cones/lights (ADN)	: 0
- Rail transport	
Classification code (RID)	: C9
Special provisions (RID)	: 533
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T4
Portable tank and bulk container special provisions (RID)	: TP1
Tank codes for RID tanks (RID)	: L4BN
Transport category (RID)	: 3
Special provisions for carriage – Packages (RID)	: W12
Colis express (express parcels) (RID)	: CE8
Hazard identification number (RID)	: 80

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

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

Germany

: Water hazard class (WGK) 3, Highly hazardous to water (Classification according to AwSV, Annex 1)
: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)
: Formaldehyde is listed
: None of the components are listed

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NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: None of the components are listed
Denmark	
Class for fire hazard	: Class III-1
Store unit	: 50 liter
Classification remarks	: Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed
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
	The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:

Full lext of H- and EOH-statement	
Acute Tox. 2 (Dermal)	Acute toxicity (dermal), Category 2
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
Carc. 2	Carcinogenicity, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Sens. 1	Skin sensitisation, Category 1
STOT SE 1	Specific target organ toxicity — Single exposure, Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H310	Fatal in contact with skin.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H370	Causes damage to organs.

Safety Data Sheet

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.