

CAS No: MSDS

MATERIAL SAFETY DATA SHEET (MSDS)

1.1. Product identifier	
Product form	: Mixture
	:
Product code	: 4080A
1.2. Relevant identified u	ses of the substance or mixture and uses advised against
1.2.1. Relevant identified u	Ses
Use of the substance/mixture	: Industrial. For professional use only.
1.2.2. Uses advised agains	t
No additional information availa	
1.3. Details of the supplie	er of the safety data sheet
SPAN LAB	

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SECTION 2: Hazards identification

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

Acute toxicity (oral), Category 3	H301
Acute toxicity (inhal.), Category 4	H332
Skin corrosion/irritation,	H314
Category 1B Sensitisation — Skin,	H317
category 1 Carcinogenicity, Category	H350
1A	H300
Hazardous to the aquatic environment — Chronic Hazard, Category 1	H410

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

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Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements		
Labelling according to Regulation (EC) N	No. 1272/2008 [CLP]	
Hazard pictograms (CLP)	\wedge \wedge \wedge	
	GHS05 GHS06 GHS08 GHS09	
Signal word (CLP)	: Danger	
Hazard statements (CLP)	 H301 - Toxic if swallowed H314 - Causes severe skin burns and eye damage H317 - May cause an allergic skin reaction H332 - Harmful if inhaled H350 - May cause cancer (if inhaled, if swallowed, in contact with skin) H410 - Very toxic to aquatic life with long lasting effects 	
Precautionary statements (CLP)	 P201 - Obtain special instructions before use P273 - Avoid release to the environment P280 - Wear eye protection, face protection, face shield, protective clothing, protective gloves P301+P310 - IF SWALLOWED: immediately call a POISON CENTER or doctor/physician 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 or doctor/physician 	

2.3. Other hazards

No additional information available

SECTI	ON 3: Composition/information on ingredients			
3.1.	Substance			
Not applicable				
3.2.	Mixture			

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Water	(CAS No) 7732-18-5 (EC no) 231-791-2	70 - 85	Not classified

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Hydrazine hydrate solution	(CAS No) 10217-52-4	24 - 25	Skin Corr. 1B, H314 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 4, H413
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Full text of H-phrases: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
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First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Get immediate medical advice/attention.
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 or doctor/physician.
First-aid measures after ingestion	: Rinse mouth out with water. Get immediate medical advice/attention.
4.2. Most important symptoms and e	ffects, both acute and delayed
Symptoms/injuries	: Causes severe skin burns and eye damage.
Symptoms/injuries after inhalation	: May cause an allergic skin reaction.
Symptoms/injuries after skin contact	: Repeated exposure to this material can result in absorption through skin causing significant health hazard. Harmful in contact with skin.
Symptoms/injuries after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.
4.3. Indication of any immediate med	lical attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Foam. Dry powder. Carbon dioxide.
Unsuitable extinguishing media	: 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	
6.1. Personal precautions, protective	equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel. Do not breathe gas.
6.1.2. For emergency responders	
Protective equipment	: Use personal protective equipment as required.
Emergency procedures	: Ventilate area.

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6.2. Environmental precautions	
Very toxic to aquatic life with long lasting e	effects.
6.3. Methods and material for conta	ainment 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 breathe fume, gas, vapours. Do not get in eyes, on skin, or on clothing.
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, in	cluding any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Store in a well-ventilated place. Keep container tightly closed.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/person	al protection
8.1. Control parameters	
No additional information available	

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 properties			
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9.1. Information on basic physic	al and chemical properties		

: No data available
: No data available

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Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
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	: No data available

9.2.	Other information
No addi	tional information available
SECTIC	N 10: Stability and reactivity
10.1.	Reactivity
Therma	decomposition generates : Corrosive vapours.
10.2.	Chemical stability
No addi	tional information available
10.3.	Possibility of hazardous reactions
No addi	tional information available
10.4.	Conditions to avoid
Direct s	unlight. Overheating. Extremely high or low temperatures.
10.5.	Incompatible materials
No addi	tional information available
10.6.	Hazardous decomposition products
Therma	decomposition generates : Corrosive vapours.
SECTIC	N 11: Toxicological information

.1. Information on toxicological effects			
Acute toxicity	: Oral: Toxic if swallowed. Inh	alation: Harmful if inhaled.	
ATE CLP (oral)	100 mg/kg bodyweight		
ATE CLP (gases)	4500 ppmv/4h		
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ATE CLP (vapours)	11 mg/l/4h
ATE CLP (dust,mist)	1.5 mg/l/4h
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
Serious eye damage/irritation	: Serious eye damage, category 1, implicit
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: May cause cancer (if inhaled, if swallowed, in contact with skin).
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential adverse human health effects and symptoms	: Harmful if swallowed. Harmful in contact with skin.
SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - water	: Very toxic to aquatic life. May cause long lasting harmful effects to aquatic life.

12.2.	Persistence and degradability	
HYDRAZINE HYDRATE 24-26% SOLUTION IN WATER		
Persistence and degradability		May cause long-term adverse effects in the environment.
12.3.	Bioaccumulative potential	

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

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SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Product/Packaging disposal recommendations	: Dispose of contents/container to
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IA	TA / ADN
14.1. UN number	
UN-No. (ADR)	: 3293
UN-No. (IMDG)	: 3293
UN-No.(IATA)	: 3293
UN-No.(ADN)	: Not regulated
UN-No. (RID)	: Not regulated
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: HYDRAZINE, AQUEOUS SOLUTION
Proper Shipping Name (IMDG)	: HYDRAZINE, AQUEOUS SOLUTION
Proper Shipping Name (IATA)	: HYDRAZINE, AQUEOUS SOLUTION
Proper Shipping Name (ADN)	: Not regulated
Proper Shipping Name (RID)	: Not regulated
Transport document description (ADR)	: UN 3293 HYDRAZINE, AQUEOUS SOLUTION, 6.1, III, (E), ENVIRONMENTALLY HAZARDOUS
Transport document description (IMDG)	: UN 3293 HYDRAZINE, AQUEOUS SOLUTION, 6.1, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
Transport document description (IATA)	: UN 3293 HYDRAZINE, AQUEOUS SOLUTION, 6.1, III, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: 6.1
Danger labels (ADR)	: 6.1
	6
IMDG	
Transport hazard class(es) (IMDG)	: 6.1
Danger labels (IMDG)	: 6.1



IATA

Transport hazard class(es) (IATA)	:
Hazard labels (IATA)	:

6.1 6.1

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ADN	
Transport hazard class(es) (ADN)	: Not regulated
RID Transport hazard class(es) (RID)	: Not regulated
14.4. Packing group	
Packing group (ADR)	: III
Packing group (IMDG)	: 111
Packing group (IATA)	: 111
Packing group (ADN)	: Not regulated
Packing group (RID)	: Not regulated
14.5. Environmental hazards	
Dangerous for the environment	: Yes
Marine pollutant	: Yes
Other information	: No supplementary information available

14.6. Special precautions for user

- Overland transport	
Classification code (ADR)	: T4
Special provision (ADR)	: 566
Limited quantities (ADR)	: 5L
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T4
Portable tank and bulk container special provisions (ADR)	: TP1
Tank code (ADR)	: L4BH
Tank special provisions (ADR)	: TU15, TE19
Vehicle for tank carriage	: AT
Transport category (ADR)	: 2
Special provisions for carriage - Packages (ADR)	: V12
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13, CV28
Special provisions for carriage - Operation (ADR)	: S9
Hazard identification number (Kemler No.)	: 60
Orange plates	60 3293
Tunnel restriction code (ADR)	: F
EAC code	:•2X
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- Transport by sea	
Special provision (IMDG)	: 223
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-A
Stowage category (IMDG)	: A
Segregation (IMDG)	: SG35
MFAG-No	: 152
- Air transport	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y642
PCA limited quantity max net quantity (IATA)	: 2L
PCA packing instructions (IATA)	: 655
PCA max net quantity (IATA)	: 60L

- Rail transport
Not regulated

ERG code (IATA)

Not regulated

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

: 663

: 220L

: A3

: 6L

Not applicable

SECTION 15: Regulatory information

CAO packing instructions (IATA)

CAO max net quantity (IATA)

- Inland waterway transport

Special provision (IATA)

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

15.1.1. EU-Regulations

Contains no substances with Annex XVII restrictions Contains no REACH candidate substance

Contains no REACH Annex XIV substances.

15.1.2. National regulations

Germany

AwSV/VwVwS Annex reference

: Water hazard class (WGK) 3, strongly hazardous to water (Classification according to AwSV, Annex 1)

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12th Ordinance Implementing the Federal	: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)
Immission Control Act - 12.BImSchV	

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
	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-phrases:

Full lext of H- and EUH-phrases.	
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 4	Hazardous to the aquatic environment — Chronic Hazard, Category 4
Carc. 1A	Carcinogenicity, Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Sens. 1	Sensitisation — Skin, category 1
H301	Toxic if swallowed
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H332	Harmful if inhaled
H350	May cause cancer
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H413	May cause long lasting harmful effects to aquatic life

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