O-TOLUIDINE REAGENT MSDS

CAS No: 95-53-4 MSDS



MATERIAL SAFETY DATA SHEET (MSDS)

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

1.1. Product identifier	
Product form	: Mixture
	:
EC no	: 202-429-0
CAS No	: 95-53-4
Product code	: 6343D
Formula	: C7H9N
Chemical structure	NH ₂ CH ₃
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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 Directive 67/548/EEC or 1999/45/EC

Carc.Cat.2; R45 Xn; R20/22 C; R34 Full text of R-phrases: 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 Directive 67/548/E	EC or 1999/45/EC
Hazard symbols	
	T - Toxic C - Corrosive
R-phrases	: R20/22 - Harmful by inhalation and if swallowed R34 - Causes burns R45 - May cause cancer
S-phrases	 S4 - Keep away from living quarters S24 - Avoid contact with skin S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice S28 - After contact with skin, wash immediately with plenty of (to be specified by the manufacturer) S35 - This material and its container must be disposed of in a safe way S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection S38 - In case of insufficient ventilation, wear suitable respiratory equipment S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) S53 - Avoid exposure - obtain special instructions before use S59 - Refer to manufacturer/supplier for information on recovery/recycling

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Acetic acid	(CAS No) 64-19-7 (EC no) 200-580-7 (EC index no) 607- 002-00-6	25 - 50	C; R35 R10	Skin Corr. 1A, H314 Eye Dam. 1, H318 Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332

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Name	Product identifier	%	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]
o-Toluidine substance listed as REACH Candidate	(CAS No) 95-53-4 (EC no) 202-429-0 (EC index no) 612- 091-00-X	10 - 15	Carc.Cat.2; R45 T; R23/25 Xi; R36 N; R50	Carc. 1B, H350 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Oral), H301 Eye Irrit. 2, H319 Aquatic Acute 1, H400
Thiourea	(CAS No) 62-56-6 (EC no) 200-543-5 (EC index no) 612- 082-00-0	0.01 - 1	Carc.Cat.3; R40 Repr.Cat.3; R63 Xn; R22 N; R51/53	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Repr. 2, H361d Aquatic Chronic 2, H411
Disodium tetraborate decahydrate; borax decahydrate substance listed as REACH Candidate (Disodium tetraborate, anhydrous)	(CAS No) 1303-96- 4 (EC no) 215-540-4 (EC index no) 005- 011-01-1	0.01 - 1	Repr.Cat.2; R60 Repr.Cat.2; R61	Repr. 1B, H360F Repr. 1B, H360D
Water	(CAS No) 7732-18- 5 (EC no) 231-791-2	0.01 - 1	Not classified	Not classified

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

SECTION 4: First aid measures	
4.1. Description of first aid measu	ires
First-aid measures general	: IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
First-aid measures after skin contact	 Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.
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. Call a POISON CENTER or doctor/physician if you feel unwell. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.
4.2. Most important symptoms an	d effects, both acute and delayed
Symptoms/injuries	: Causes severe skin burns and eye damage. May cause cancer.
Symptoms/injuries after ingestion	: Harmful if swallowed.
4.3. Indication of any immediate n	nedical 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).
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.

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SECTIO	ON 6: Accidental release measures	3
6.1.	Personal precautions, protective	equipment and emergency procedures
6.1.1.	For non-emergency personnel	
	ency procedures	: Evacuate unnecessary personnel.
Lineige	ney procedures	. Evacuate unnecessary personnel.
6.1.2.	For emergency responders	
	ve equipment	: Use personal protective equipment as required.
Emerge	ency procedures	: Stop release.
6.2.	Environmental precautions	
Very to:	kic to aquatic life.	
6.3.	Matheda and material far contain	ement and cleaning up
	Methods and material for contain	
wernoo	s 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 add	itional information available	
SECTIO	ON 7: Handling and storage	
7.1.	Precautions for safe handling	
	tions for safe handling	: Do not breathe dust/fume/gas/mist/vapours/spray. Obtain special instructions before
Flecau		use. Do not handle until all safety precautions have been read and understood.
Hygiene	e measures	: Do not eat, drink or smoke when using this product. Wash thoroughly after
,,,		handling. Wash contaminated clothing before reuse.
7.2.	Conditions for safe storage, incl	
	al measures	: Comply with applicable regulations.
Storage	conditions	: Store in original container. Keep container tightly closed. Store in a dry place. Store in a well-ventilated place.
7.3.	Specific end use(s)	
	itional information available	
	ON 8: Exposure controls/personal	protection
	on the exposure controls/personal	
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 pr	operties
9.1. Information on basic physica	I and chemical properties
Physical state	: Liquid

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Colour	: Clear Colorless to yellow.
Odour	: amine like.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 230 °C
Freezing point	: No data available
Boiling point	: 1990 - 2000
Flash point	: 40≥50
Auto-ignition temperature	: 4800 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: 0.2 mbar at 200C
Relative vapour density at 20 °C	: 3.7
Relative density	: No data available
Density Solubility	: 1.004 g/cm³ : Water: 1.5 g/100ml (25°C)
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 additional information available	

SECTIO	DN 10: Stability and reactivity
10.1.	Reactivity
Therma	I decomposition generates : Corrosive vapours.
10.2.	Chemical stability
Stable (under normal conditions.
10.3.	Possibility of hazardous reactions
No add	itional information available
10.4.	Conditions to avoid
Direct s	unlight. Overheating. Sparks.
10.5.	Incompatible materials
No add	itional information available

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10.6. Hazardous decomposition products

Thermal decomposition generates : Corrosive vapours.

SECTION 11: Toxicological information 11.1. Information on toxicological effects Acute toxicity : Harmful by inhalation and if swallowed. : Not classified Irritation Corrosivity : Causes burns. Sensitisation : Not classified Repeated dose toxicity : Not classified Carcinogenicity : May cause cancer. Mutagenicity : Not classified Toxicity for reproduction : Not classified Potential adverse human health effects : Harmful if swallowed. and symptoms

SECTION 12: Ecological information

12.1. Toxicity No additional information available

12.2.	Persistence	e and degradability	
No addi	tional informa	ation 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 assessment

o-TOLUIDINE REAGENT (95-53-4)		
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII		
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII		
Component		
o-Toluidine (95-53-4)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	

	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Disodium tetraborate decahydrate; borax decahydrate (1303-96-4)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects				
No additional information available				
SECTION 13: Disposal considerations				
13.1. Waste treatment methods				
Product/Packaging disposal : Dispose of contents/container to recommendations				
SECTION 14: Transport information				
In accordance with ADR / RID / IMDG / IA	TA / ADN			
14.1. UN number				
UN-No. (ADR)	: 2920			
UN-No. (IMDG)	: 2920			
UN-No.(IATA)	: 2920			
UN-No.(ADN)	: 2920			
UN-No. (RID)	: 2920			
14.2.UN proper shipping nameProper Shipping Name (ADR)	: CORROSIVE LIQUID, FLAMMABLE, N.O.S.			
Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	: CORROSIVE LIQUID, FLAMMABLE, N.O.S. : CORROSIVE LIQUID, FLAMMABLE, N.O.S.			
Proper Shipping Name (ADN)	: CORROSIVE LIQUID, FLAMMABLE, N.O.S.			
Proper Shipping Name (RID)	: CORROSIVE LIQUID, FLAMMABLE, N.O.S.			
Transport document description (ADR)	: UN 2920 CORROSIVE LIQUID, FLAMMABLE, N.O.S., 8 (3), I, (D/E),			
	ENVIRONMENTALLY HAZARDOUS			
Transport document description (IMDG)	: UN 2920 CORROSIVE LIQUID, FLAMMABLE, N.O.S., 8 (3), I, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS			
Transport document description (IATA)	: UN 2920 CORROSIVE LIQUID, FLAMMABLE, N.O.S., 8 (3), I, ENVIRONMENTALLY HAZARDOUS			
Transport document description (ADN)	: UN 2920 CORROSIVE LIQUID, FLAMMABLE, N.O.S., 8 (3), I, ENVIRONMENTALLY HAZARDOUS			
Transport document description (RID)	: UN 2920 CORROSIVE LIQUID, FLAMMABLE, N.O.S., 8 (3), I, ENVIRONMENTALLY HAZARDOUS			
14.3. Transport hazard class(es)				
ADR				
Transport hazard class(es) (ADR)	: 8 (3)			
Danger labels (ADR)	: 8, 3			
IMDG				
Transport hazard class(es) (IMDG)	: 8 (3)			
Danger labels (IMDG)	: 8,3			
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IATA Transport hazard class(es) (IATA) Hazard labels (IATA)	: 8 (3) : 8, 3
ADN Transport hazard class(es) (ADN) Danger labels (ADN)	: 8 (3) : 8, 3
RID Transport hazard class(es) (RID) Danger labels (RID)	: 8 (3) : 8, 3
14.4. Packing group	
Packing group (ADR)	
Packing group (IMDG) Packing group (IATA)	:
Packing group (ADN)	: 1
Packing group (RID)	: I
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)	: CF1
Special provision (ADR)	: 274
Limited quantities (ADR)	: 0
Excepted quantities (ADR)	: E0
Packing instructions (ADR)	: P001
Mixed packing provisions (ADR)	: MP8, MP17
Portable tank and bulk container instructions (ADR)	: T14
Portable tank and bulk container special provisions (ADR)	: TP2, TP27

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Tank code (ADR)	: L10BH
Vehicle for tank carriage	: FL
Transport category (ADR)	: 1
Special provisions for carriage - Operation (ADR)	: S2, S14
Hazard identification number (Kemler No.)	: 883
Orange plates	883
	2920
Tunnel restriction code (ADR)	: D/E
EAC code	: •3W
APP code	: A(fl)
- Transport by sea	
Special provision (IMDG)	: 274
Limited quantities (IMDG)	: 0
Excepted quantities (IMDG)	: E0
Packing instructions (IMDG)	: P001
Tank instructions (IMDG)	: T14
Tank special provisions (IMDG)	: TP2, TP27
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-C
Stowage category (IMDG)	: C
Stowage and handling (IMDG)	: SW1, SW2
MFAG-No	: 132
	. 152
- Air transport	
PCA Excepted quantities (IATA)	: E0
PCA Limited quantities (IATA)	: Forbidden
PCA limited quantity max net quantity (IATA)	: Forbidden
PCA packing instructions (IATA)	: 850
PCA max net quantity (IATA)	: 0.5L
CAO packing instructions (IATA)	: 854
CAO max net quantity (IATA)	: 2.5L
ERG code (IATA)	: 8F
- Inland waterway transport	
Classification code (ADN)	: CF1
Special provisions (ADN)	: 274
Limited quantities (ADN)	: 0
Excepted quantities (ADN)	: E0
Equipment required (ADN)	: PP, EP, EX, A
Ventilation (ADN)	: VE01
Number of blue cones/lights (ADN)	: 1
- Rail transport	
Classification code (RID)	: CF1
Special provision (RID)	: 274
Limited quantities (RID)	: 0
Excepted quantities (RID)	: E0
Packing instructions (RID)	: P001
Mixed packing provisions (RID)	: MP8, MP17
Portable tank and bulk container	: T14
instructions (RID)	

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Portable tank and bulk container special provisions (RID)	: TP2, TP27
Tank codes for RID tanks (RID)	: L10BH
Special provisions for RID tanks (RID)	: TU38, TE22
Transport category (RID)	: 1
Hazard identification number (RID)	: 883

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 substances with Annex XVII restrictions

Contains substance on the candidate list in concentration \geq 0.1% or with a lower specific limit: o-Toluidine (EC 202-429-0, CAS 95-53-4), Disodium tetraborate, anhydrous (EC 215-540-4, CAS 1303-96-4)

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) : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance) 12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV Denmark Classification remarks : 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.	Che	mica	al safety	ass	essm	ent

No additional information available

SECTION 16: Other information

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Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
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 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Carc. 1B	Carcinogenicity, Category 1B
Carc. 2	Carcinogenicity, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Repr. 1B	Reproductive toxicity, Category 1B
Repr. 1B	Reproductive toxicity, Category 1B
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
H226	Flammable liquid and vapour
H301	Toxic if swallowed
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H319	Causes serious eye irritation
H331	Toxic if inhaled
H332	Harmful if inhaled
H350	May cause cancer
H351	Suspected of causing cancer
H360D	May damage the unborn child
H360F	May damage fertility
H361d	Suspected of damaging the unborn child
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects
R10	Flammable
R20/22	Harmful by inhalation and if swallowed
R22	Harmful if swallowed
R23/25	Toxic by inhalation and if swallowed
R34	Causes burns
R35	Causes severe burns
R36	Irritating to eyes
R40	Limited evidence of a carcinogenic effect
R45	May cause cancer
R50	Very toxic to aquatic organisms
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R60	May impair fertility
	May cause harm to the unborn child
R61 R63	Possible risk of harm to the unborn child
С	
	Corrosive
N	Dangerous for the environment
T	Toxic
Xi	Irritant
Xn	Harmful

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