

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product form : Mixture
Trade name : Primer DL 783

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

1.2.1. Relevant identified uses
Main use category : Professional use

1.2.2. Uses advised against
No additional information available

1.3. Details of the supplier of the safety data sheet

DL CHEMICALS
Roterijstraat 201-203
B-8793 Waregem - Belgium
T + 32 56 62 70 51 - F + 32 56 60 95 68
info@dl-chem.com - www.dl-chem.com

1.4. Emergency telephone number

Emergency number : + 32 70 245 245

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture**

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

Flammable liquids, Category 2	H225
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Reproductive toxicity, Category 2	H361d
Specific target organ toxicity — Single exposure, Category 3, Narcosis	H336
Specific target organ toxicity — Repeated exposure, Category 2	H373

Full text of hazard classes and 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. 1272/2008 [CLP]

Hazard pictograms (CLP) :



CLP Signal word : Danger

Hazardous ingredients : toluene

Hazard statements (CLP) : H225 - Highly flammable liquid and vapour
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness
H361d - Suspected of damaging the unborn child
H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P233 - Keep container tightly closed
P243 - Take action to prevent static discharges
P271 - Use only outdoors or in a well-ventilated area
P280 - Wear protective gloves, protective clothing, eye protection
P302+P352 - IF ON SKIN: Wash with plenty of soap and water

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P332+P313 - If skin irritation occurs: Get medical advice/attention
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337+P313 - If eye irritation persists: Get medical advice/attention
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
P312 - Call a POISON CENTER, a doctor if you feel unwell
P370+P378 - In case of fire: Use Water spray, carbon dioxide (CO₂), foam to extinguish
P403+P235 - Store in a well-ventilated place. Keep cool
P501 - Dispose of contents to an approved waste disposal plant

EUH-statements : EUH208 - Contains methyl methacrylate, n-butyl methacrylate. May produce an allergic reaction

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
toluene	(CAS-No.) 108-88-3 (EC-No.) 203-625-9 (EC Index-No.) 601-021-00-3 (REACH-no) 01-2119471310-51	> 50 - < 75	Flam. Liq. 2, H225 Repr. 2, H361d Asp. Tox. 1, H304 STOT RE 2, H373 Skin Irrit. 2, H315 STOT SE 3, H336
Butanol	(CAS-No.) 71-36-3 (EC-No.) 200-751-6 (EC Index-No.) 603-004-00-6 (REACH-no) 01-2119484630-38	< 3	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 STOT SE 3, H335 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H336
methyl methacrylate, methyl 2-methylprop-2-enoate, methyl 2-methylpropenoate (Note D)	(CAS-No.) 80-62-6 (EC-No.) 201-297-1 (EC Index-No.) 607-035-00-6 (REACH-no) 01-21194552498-28	< 1	Flam. Liq. 2, H225 STOT SE 3, H335 Skin Irrit. 2, H315 Skin Sens. 1, H317
n-butyl methacrylate (Note D)	(CAS-No.) 97-88-1 (EC-No.) 202-615-1 (EC Index-No.) 607-033-00-5 (REACH-no) 01-2119486394-28	< 1	Flam. Liq. 3, H226 Eye Irrit. 2, H319 STOT SE 3, H335 Skin Irrit. 2, H315 Skin Sens. 1, H317

Note D : Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier must state on the label the name of the substance followed by the words 'non-stabilised'.

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If unconscious, place in the recovery position and seek medical advice. Call a POISON CENTER or doctor/physician.

First-aid measures after skin contact : Wash with plenty of soap and water. Get medical advice if skin irritation persists. Remove contaminated clothing and shoes.

First-aid measures after eye contact : If eye irritation persists, consult a specialist. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

First-aid measures after ingestion : Get immediate medical advice/attention. Give nothing or a little water to drink. Do not induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

No additional information available

4.3. Indication of any immediate medical attention and special treatment needed

Reproduction Toxic Substances.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Carbon dioxide. extinguishing powder. Alcohol resistant foam. Sand.
Unsuitable extinguishing media : Strong water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Carbon dioxide. Carbon monoxide. Silicon oxide. Hydrocarbons. Toxic fumes may be released. soot.

5.3. Advice for firefighters

Precautionary measures fire : Evacuate unnecessary personnel.
Protection during firefighting : Wear a self contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Do not inhale vapour. Avoid contact with skin and eyes. Spills of this product present a serious slipping hazard.

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate area.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Equip rescue crew with proper protection.

6.2. Environmental precautions

Contain the spilled material by bunding. Do not allow to enter drains or water courses. Avoid sub-soil penetration. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.
Methods for cleaning up : Take up liquid spill into absorbent material, e.g.: sand, saw dust. Sweep or shovel spills into appropriate container for disposal. Do not flush with water.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Spill area may be slippery.
Precautions for safe handling : Ensure adequate air ventilation. Vapour mixes readily with air, forming explosive mixtures. Eliminate all ignition sources if safe to do so. Proper grounding procedures to avoid static electricity should be followed.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Close container tightly after use.
Storage area : Store in a cool, well-ventilated place.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

toluene (108-88-3)		
EU	Local name	Toluene
EU	IOELV TWA (mg/m ³)	192 mg/m ³
EU	IOELV TWA (ppm)	50 ppm
EU	IOELV STEL (mg/m ³)	384 mg/m ³
EU	IOELV STEL (ppm)	100 ppm
EU	Notes	skin
United Kingdom	WEL TWA (mg/m ³)	191 mg/m ³
United Kingdom	WEL TWA (ppm)	50 ppm
United Kingdom	WEL STEL (mg/m ³)	384 mg/m ³
United Kingdom	WEL STEL (ppm)	100 ppm

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Butanol (71-36-3)		
EU	Local name	n-Butyl alcohol
EU	Notes	SCOEL Recommendations (Ongoing)
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EU	IOELV TWA (mg/m ³)	260 mg/m ³ Methanol
EU	IOELV TWA (ppm)	200 ppm Methanol

8.2. Exposure controls

Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure good ventilation of the work station.

Hand protection:

Time of penetration is to be checked with the glove producer. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Gloves must be replaced after each use and whenever signs of wear or perforation appear

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Fluoroelastomer	6 (> 480 minutes)	> 0,7		EN 374
	Viton® II	6 (> 480 minutes)	0,062		EN 374

Eye protection:

Type	Use	Characteristics	Standard
Safety glasses		With side shields	EN 166

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Device	Filter type	Condition	Standard
Full face mask	ABEK	If conc. in air > exposure limit	EN 136, EN 14387
Full face mask	ABEK, Extra personal protection: A/P2 filter respirator for organic vapour and harmful dust	Aerosols, Vapour protection	EN 136, EN 14387
Self-contained breathing apparatus		Long term exposure	EN 137



Environmental exposure controls:

Do not allow to enter drains or water courses. Avoid sub-soil penetration.

Consumer exposure controls:

Avoid contact during pregnancy/while nursing. Remove/Take off immediately all contaminated clothing. Wash hands and other exposed areas with soap and water before leaving work. Avoid contact with skin and eyes.

Other information:

Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid.
Colour	: Colourless.
Odour	: strong.
Boiling point	: 111 °C
Flash point	: 8 °C
Auto-ignition temperature	: ca 420 °C
Vapour pressure	: 29 hPa at 20 °C
Relative density	: 0,95 at 25 °C
Density	: 0,95 g/cm ³ at 25 °C
Solubility	: Water: practically insoluble
Viscosity, dynamic	: 100 - 300 mPa.s
Explosive limits	: 1,2 - 7 vol %

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Open flame. Heat. Sources of ignition.

10.5. Incompatible materials

Water. acids and bases.

10.6. Hazardous decomposition products

Methanol.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

ATE CLP (oral)	2000 mg/kg
toluene (108-88-3)	
LD50 oral rat	5580 mg/kg
LD50 dermal rat	12124 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
LC50 inhalation rat (mg/l)	28,1 mg/l/4h (OECD 403 method)
Butanol (71-36-3)	
LD50 oral rat	790 mg/kg
LD50 dermal rat	3400 mg/kg
LC50 inhalation rat (mg/l)	24,3 mg/l/4h

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Suspected of damaging the unborn child.
STOT-single exposure	: May cause drowsiness or dizziness.

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STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.

Butanol (71-36-3)	
NOAEL (oral, rat, 90 days)	125 mg/kg bodyweight/day

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

toluene (108-88-3)	
LC50 fish 1	5,5 (5) mg/l oncorhynchus kisutch
EC50 Daphnia 1	3,8 mg/l Daphnia magna
EC50 72h algae (1)	12,5 mg/l
ErC50 (algae)	72h 12,5 mg/l
NOEC chronic crustacea	0,74 mg/l Ceriodaphnia dubai
NOEC chronic algae	10 mg/l Skeletonema costatum
Butanol (71-36-3)	
LC50 fish 1	1376 mg/l
EC50 Daphnia 1	1328 mg/l
EC50 Daphnia 2	18 mg/l
ErC50 (algae)	225 mg/l
NOEC chronic crustacea	4,1 mg/l
NOEC chronic algae	129 mg/l

12.2. Persistence and degradability

Primer DL 783	
Persistence and degradability	Not biodegradable.
toluene (108-88-3)	
Persistence and degradability	Readily biodegradable.
Biochemical oxygen demand (BOD)	1,23 g O ₂ /g substance
Butanol (71-36-3)	
Persistence and degradability	Easily biodegradable (concerning to the criteria of the OECD).
Biodegradation	> 92 % 20 d

12.3. Bioaccumulative potential

Primer DL 783	
Bioaccumulative potential	Bioaccumulation unlikely.
toluene (108-88-3)	
Bioaccumulative potential	Bioaccumulation unlikely.
Butanol (71-36-3)	
Bioconcentration factor (BCF REACH)	3,16
Bioaccumulative potential	not bioaccumulative.

12.4. Mobility in soil

toluene (108-88-3)	
Ecology - soil	Product adsorbs onto the soil.

12.5. Results of PBT and vPvB assessment

Component	
	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

Regional legislation (waste) : Disposal must be done according to official regulations.
Product/Packaging disposal recommendations : Empty containers should be taken for recycling, recovery or waste in accordance with local regulation.


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SECTION 14: Transport information

In accordance with ADR

ADR
14.1. UN number 1993
14.2. UN proper shipping name FLAMMABLE LIQUID, N.O.S. UN 1993 FLAMMABLE LIQUID, N.O.S. (toluene(108-88-3) ; Butanol(71-36-3)), 3, II, (D/E)
14.3. Transport hazard class(es) 3 
14.4. Packing group II
14.5. Environmental hazards Dangerous for the environment : No No supplementary information available

14.6. Special precautions for user

- Overland transport

Classification code (ADR)	: F1
Special provisions (ADR)	: 274, 601, 640D
Limited quantities (ADR)	: 1I
Excepted quantities (ADR)	: E2
Packing instructions (ADR)	: P001, IBC02, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T7
Portable tank and bulk container special provisions (ADR)	: TP1, TP8, TP28
Tank code (ADR)	: LGBF
Vehicle for tank carriage	: FL
Transport category (ADR)	: 2
Special provisions for carriage - Operation (ADR)	: S2, S20
Hazard identification number (Kemler No.)	: 33
Orange plates	: 
Tunnel restriction code (ADR)	: D/E

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

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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

Other information, restriction and prohibition regulations : Ensure all national/local regulations are observed.

15.1.2. National regulations

IECSC

PICCS

TSCA

EINECS/ELINCS

AICS

Listed on the Canadian DSL (Domestic Substances List)

Listed on the Korean ECL (Existing Chemicals List)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

For the following substances of this mixture a chemical safety assessment has been carried out
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toluene

SECTION 16: Other information

Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic Not classified	Hazardous to the aquatic environment - Chronic Hazard Not classified
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H361d	Suspected of damaging the unborn child
H373	May cause damage to organs through prolonged or repeated exposure
EUH208	Contains . May produce an allergic reaction

MSDS Reach Annex II DL-Chem

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