Primer DL 2001 Transparent

Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 20/10/2016 Revision date: 20/10/2016 Supersedes: 9/03/2015 Version: 8.0

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

1.1. Product identifier

Product form : Mixtures

Trade name : Primer DL 2001 Transparent

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
Serious eye damage/eye irritation, Category 2	H319
Sensitisation — Skin, Category 1	H317
Specific target organ toxicity — Single exposure, Category 3, Narcosis	H336

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) :

GHS02 GHS07

CLP Signal word : Danger

Hazardous ingredients : butanone; ethyl acetate; n-butyl acetate; HDI oligomers, isocyanurate; Benzene, 2,4-diisocyanato-1-methyl-, polymer with 1,6-diisocyanatohexane polyisocyanate

Hazard statements (CLP) : H225 - Highly flammable liquid and vapour
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness

Precautionary statements (CLP) : P261 - Avoid breathing vapours
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P241 - Use explosion-proof electrical, ventilating, lighting equipment
P280 - Wear protective gloves, protective clothing, eye protection, face protection

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P501 - Dispose of contents/container to a hazardous or special waste collection point

EUH-statements : EUH204 - Contains isocyanates. May produce an allergic reaction

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. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
butanone, ethyl methyl ketone	(CAS No) 78-93-3 (EC no) 201-159-0 (EC index no) 606-002-00-3 (REACH-no) 01-2119457290-43	40-60	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
ethyl acetate	(CAS No) 141-78-6 (EC no) 205-500-4 (EC index no) 607-022-00-5 (REACH-no) 01-2119475103-46	10-20	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Benzene, 2,4-diisocyanato-1-methyl-, polymer with 1,6-diisocyanatohexane polyisocyanate	(CAS No) 26426-91-5	5-15	Skin Sens. 1, H317
n-butyl acetate	(CAS No) 123-86-4 (EC no) 204-658-1 (EC index no) 607-025-00-1 (REACH-no) 01-2119485493-29	5-10	Flam. Liq. 3, H226 STOT SE 3, H336
HDI oligomers, isocyanurate	(CAS No) 28182-81-2 (REACH-no) 01-2119485796-17	5-10	Acute Tox. 4 (Inhalation), H332 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 3, H412
2-methoxy-1-methylethyl acetate	(CAS No) 108-65-6 (EC no) 203-603-9 (EC index no) 607-195-00-7 (REACH-no) 01-2119475791-29	<2,5	Flam. Liq. 3, H226

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 : If breathing stops, give artificial respiration. If symptoms persist call a doctor. If unconscious, place in the recovery position and seek medical advice. Keep victim warm and rested. Move to fresh air.

First-aid measures after skin contact : Rinse with water. After contact with skin, wash immediately and thoroughly with water and soap.

First-aid measures after eye contact : Rinse with water while holding the eyes wide open. Contact ophthalmologist immediately.

First-aid measures after ingestion : Do not induce vomiting. Seek medical attention immediately.

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

Symptoms/injuries : Dizziness. Headache. Shortness of breath. Gastrointestinal complaints. Narcotic in high concentrations.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide (CO2). Water spray. extinguishing powder.

Unsuitable extinguishing media : Strong water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Carbon monoxide. Hydrogen chloride. Nitrogen oxides. Isocyanates. Hydrogen cyanide.

5.3. Advice for firefighters

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 : Ensure adequate air ventilation. Where excessive vapour, mist, or dust may result, use approved respiratory protection equipment. Remove ignition sources.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Reacts slowly with water, generate gases (CO2) and overpressure : rupture containers. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Do not seal, block up or close. Use suitable disposal containers.

6.4. Reference to other sections

For disposal of contaminated materials refer to section 13 : "Disposal considerations". For further information refer to section 8: "Exposure controls/personal protection".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Take precautionary measures against static discharge. Keep away from sources of ignition - No smoking.

Precautions for safe handling : Ensure adequate air ventilation. Vapours are heavier than air. Handle and open container with care. Ventilate at floor level.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep in a cool place. Do not allow to enter into soil/subsoil.

Maximum storage period : 12 months

Storage temperature : 0 - 35 °C

Prohibitions on mixed storage : Not required.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

butanone, ethyl methyl ketone (78-93-3)		
EU	IOELV TWA (mg/m³)	600 mg/m³
EU	IOELV TWA (ppm)	200 ppm
EU	IOELV STEL (mg/m³)	900 mg/m³
EU	IOELV STEL (ppm)	300 ppm
United Kingdom	WEL TWA (mg/m³)	600 mg/m³
United Kingdom	WEL TWA (ppm)	200 ppm
United Kingdom	WEL STEL (mg/m³)	899 mg/m³
United Kingdom	WEL STEL (ppm)	300 ppm

ethyl acetate (141-78-6)		
United Kingdom	WEL TWA (mg/m³)	730 mg/m³
United Kingdom	WEL TWA (ppm)	200 ppm
United Kingdom	WEL STEL (mg/m³)	1460 mg/m³
United Kingdom	WEL STEL (ppm)	400 ppm
n-butyl acetate (123-86-4)		
United Kingdom	WEL TWA (mg/m³)	724 mg/m³
United Kingdom	WEL TWA (ppm)	150 ppm
United Kingdom	WEL STEL (mg/m³)	966 mg/m³
United Kingdom	WEL STEL (ppm)	200 ppm
2-methoxy-1-methylethyl acetate (108-65-6)		
EU	IOELV TWA (mg/m³)	275 mg/m³
EU	IOELV TWA (ppm)	50 ppm
EU	IOELV STEL (mg/m³)	550 mg/m³
EU	IOELV STEL (ppm)	100 ppm
United Kingdom	WEL TWA (mg/m³)	274 mg/m³
United Kingdom	WEL TWA (ppm)	50 ppm
United Kingdom	WEL STEL (mg/m³)	548 mg/m³
United Kingdom	WEL STEL (ppm)	100 ppm

8.2. Exposure controls

Personal protective equipment : Safety glasses. Gloves.

Materials for protective clothing:

Protective clothing

Hand protection:

Protective gloves made of PVA. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. natural rubber gloves

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
	Polyethylene	6 (> 480 minutes)	0,062		EN 374

Eye protection:

tightly fitting safety goggles

Skin and body protection:

Use personal protective equipment as required

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Breathing apparatus with filter. A. Gas mask with filter type

Consumer exposure controls : Avoid contact with skin and eyes.

Other information : Remove/Take off immediately all contaminated clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid.
Colour	: light yellow.
Odour	: odourless.
Boiling point	: 79 °C
Flash point	: -9 °C
Auto-ignition temperature	: > 200 °C Stable at ambient temperature and under normal conditions of use
Decomposition temperature	: > 120 °C
Relative density	: 0,92 at 20 °C
Solubility	: Water: partly miscible
Viscosity, dynamic	: 50 mPa.s at 20 °C
Explosive properties	: Product is not explosive. May form flammable/explosive vapour-air mixture.
Explosive limits	: 1,7 - 11,5 vol %

9.2. Other information

VOC content : 75 %

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

10.3. Possibility of hazardous reactions

Reacts slowly with water, generate gases (CO2) and overpressure : rupture containers. Reacts with : Strong oxidizing agents. Alcohol. Amines. Alkali. Acids.

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No hazardous decomposition products known at room temperature.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

butanone, ethyl methyl ketone (78-93-3)	
LD50 oral rat	2737 mg/kg (OECD 423 method)
LD50 oral	3300 mg/kg
LD50 dermal rat	> 5000 mg/kg (OECD 402 method)
LD50 dermal rabbit	6480 mg/kg
LC50 inhalation rat (mg/l)	8h 23500 mg/m³
LC50 inhalation rat (ppm)	11300 ppm/4h
ethyl acetate (141-78-6)	
LD50 oral rat	> 5000 mg/kg
LD50 oral	5600 rabbit
LD50 dermal rabbit	> 5000 mg/kg
LC50 inhalation rat (mg/l)	> 29,3 mg/l/4h
n-butyl acetate (123-86-4)	
LD50 oral rat	14000 mg/kg
LD50 oral	10760 mg/kg (OECD 423 method)
LD50 dermal rabbit	> 14000 mg/kg (OECD 402 method)
LC50 inhalation rat (mg/l)	23,4 mg/l (OECD 403 method)

HDI oligomers, isocyanurate (28182-81-2)	
LD50 oral rat	> 5000 mg/kg
LC50 inhalation rat (mg/l)	543 mg/l/4h (OECD 403 method)

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Causes serious eye irritation.
Respiratory or skin sensitisation : May cause an allergic skin reaction.
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : May cause drowsiness or dizziness.
STOT-repeated exposure : Not classified

ethyl acetate (141-78-6)	
NOAEL (oral, rat, 90 days)	900 mg/kg bodyweight/day

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology – general : Do not allow to enter drains or water courses.

butanone, ethyl methyl ketone (78-93-3)	
LC50 fish 1	3220 mg/l Pimephales promelas (fathead minnow)
LC50 fish 2	1690 mg/l Lepomis macrochirus (Bluegill)
LC50 other aquatic organisms 1	8890 mg/l Daphnia magna (Big water flea)
EC50 Daphnia 1	308 mg/l Daphnia magna (Big water flea)
EC50 other aquatic organisms 2	<1h 0,333 mg/l Photobacterium Phosphoreum
EC50 72h algae (1)	1972 mg/l (OECD 201 method)
ErC50 (algae)	96h ≥ 500 mg/l Skeletonema costatum
TLM fish 1	<= 5600 mg/l Gambusia affinis (Mosquito fish)
TLM fish 2	96h 1690 mg/l Lepomis macrochirus (Bluegill)
TLM other aquatic organisms 2	96h > 1000 mg/l
Threshold limit other aquatic organisms 1	96h 3200 mg/l Gambusia affinis (Mosquito fish)
Threshold limit other aquatic organisms 2	16h 1150 mg/l Pseudomonas putida
Threshold limit algae 1	168h 110 mg/l Microcystis Aeruginosa
Threshold limit algae 2	192h 4300 mg/l
ethyl acetate (141-78-6)	
LC50 fish 1	350 mg/l Leuciscus idus (golden orfe)
LC50 fish 2	431 mg/l Brachydanio rerio (zebra-fish)
EC50 Daphnia 1	717 mg/l daphnia
EC50 72h algae (1)	17,9 mg/l
NOEC chronic crustacea	2,4 mg/l (OECD 201 method)
NOEC chronic algae	> 100 mg/l Desmodesmus subspicatus
n-butyl acetate (123-86-4)	
LC50 fish 1	18 mg/l (OECD 203 method)
EC50 Daphnia 1	44 mg/l
EC50 other aquatic organisms 1	648 mg/l Desmodesmus subspicatus (72h)

12.2. Persistence and degradability

butanone, ethyl methyl ketone (78-93-3)	
Persistence and degradability	Readily biodegradable.
Biochemical oxygen demand (BOD)	1,92 g O_2 /g substance
Chemical oxygen demand (COD)	2,31 g O_2 /g substance
ThOD	2,44 g O_2 /g substance
BOD (% of ThOD)	79 % ThOD
ethyl acetate (141-78-6)	
Persistence and degradability	Readily biodegradable.
Biodegradation	99,9 % (OECD 303 method)

n-butyl acetate (123-86-4)	
Persistence and degradability	Readily biodegradable, according to appropriate OECD test.
Biodegradation	83 % 28 days

12.3. Bioaccumulative potential

butanone, ethyl methyl ketone (78-93-3)	
Log Pow	0,26 - 0,69
Bioaccumulative potential	Not determined.
ethyl acetate (141-78-6)	
Log Pow	0,73
Bioaccumulative potential	Bioaccumulation unlikely.
n-butyl acetate (123-86-4)	
Log Pow	1,81
Log Kow	1,78

12.4. Mobility in soil

butanone, ethyl methyl ketone (78-93-3)	
Surface tension	0,024 N/m at 20 °C
Ecology - soil	Biodegradability in soil: no data available. Literature reports not toxic to flora.
ethyl acetate (141-78-6)	
Ecology - soil	Small adsorption.

12.5. Results of PBT and vPvB assessment

Primer DL 2001 Transparent	
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	
ethyl acetate (141-78-6)	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.

Waste disposal recommendations : Incinerate at a licensed installation.

European List of Waste (LoW) code : 08 04 09* - waste adhesives and sealants containing organic solvents or other dangerous substances

SECTION 14: Transport information

In accordance with ADR

ADR

14.1. UN number

1866

14.2. UN proper shipping name

RESIN SOLUTION

UN 1866 RESIN SOLUTION, 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)	: 640D
Limited quantities (ADR)	: 5l
Excepted quantities (ADR)	: E2
Packing instructions (ADR)	: P001, IBC02, R001
Special packing provisions (ADR)	: PP1
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T4
Portable tank and bulk container special provisions (ADR)	: TP1, TP8
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
EAC code	: •3YE

14.7. Transport in bulk according to Annex II of Marpol 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

VOC content : 75 %

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

A chemical safety assessment has been carried out

For the following substances of this mixture a chemical safety assessment has been carried out
butanone, ethyl methyl ketone

SECTION 16: Other information

Full text of H- and EUH-statements:

Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Skin Sens. 1	Sensitisation — Skin, Category 1
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
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H412	Harmful to aquatic life with long lasting effects
EUH204	Contains isocyanates. May produce an allergic reaction

Flam. Liq. 2	H225	On basis of test data
Eye Irrit. 2	H319	Calculation method
Skin Sens. 1	H317	Calculation method
STOT SE 3	H336	Calculation method

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