Safety Data Sheet

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

1.1. Product identifier

Product form : Mixture
Product name : Strip Off
Product code : 212

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

Use of the substance/mixture : Floor Stripper

1.3. Details of the supplier of the safety data sheet

MSM, Inc.

1101 E. Francisco Blvd. San Rafael, CA 94901 - USA T 415-258-0550 - F 415-258-0564

1.4. Emergency telephone number

Emergency number : 415-258-0550

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Skin Corr. 1B H314 Eye Dam. 1 H318 Skin Sens. 1 H317

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms





GHS05 GHS07

Signal word : Danger

Hazard statements : Causes severe skin burns and eye damage.

May cause an allergic skin reaction. Causes serious eye damage.

Precautionary statements : Do not breathe fume, mist, vapors.

Wash hands and forearms thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace. Wear eye protection, face protection, protective gloves, protective clothing.

If swallowed: rinse mouth. Do NOT induce vomiting.

If on skin: Wash with plenty of water.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

If in eyes: 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. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

Wash contaminated clothing before reuse.

Store locked up.

Dispose of contents/container in accordance with Local, State, and Federal regulations.

2.3. Hazard not otherwise classified (HNOC)

No additional information available

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Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

Not applicable

(NOTE: If component displays the * (asterisk) symbol, the following statement applies.)

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of H-phrases: see section 16

Mixture 3.2.

Name	Product identifier	%	Classification (GHS-US)
2-butoxyethanol	(CAS No) 111-76-2	5 - 10	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319
sodium hydroxide	(CAS No) 1310-73-2	5 - 10	Met. Corr. 1, H290 Acute Tox. 4 (Dermal), H312 Skin Corr. 1B, H314
2-aminoethanol	(CAS No) 141-43-5	1 - 5	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1B, H314
2-(diethylamino)ethanol	(CAS No) 100-37-8	1 - 5	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 3, H402 Aquatic Chronic 3, H412

(NOTE: If component displays the * (asterisk) symbol, the following statement applies.)

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

SECTION 4: First aid measures

4.1. I	Description	of firet	aid m	oacuroc.

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

advice (show the label where possible).

First-aid measures after inhalation Remove 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 affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Rinse skin with water/shower. Immediately call a POISON CENTER or

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to First-aid measures after eye contact do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or

doctor/physician.

Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Causes severe skin burns and eye damage.

EXPOSURE TO HIGH CONCENTRATIONS: Dry/sore throat. Coughing. Irritation of the Symptoms/injuries after inhalation

respiratory tract. Irritation of the nasal mucous membranes.

Symptoms/injuries after skin contact : Causes burns/corrosion of the skin.

Symptoms/injuries after eye contact Causes serious eye damage.

Symptoms/injuries after ingestion Vomiting. Diarrhea. Burns to the gastric/intestinal mucosa. Possible esophageal perforation.

Bleeding of the gastrointestinal tract. Shock. AFTER ABSORPTION OF HIGH QUANTITIES: Disturbances of consciousness.

Indication of any immediate medical attention and special treatment needed

No additional information available

First-aid measures after ingestion

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam. BC powder. Carbon dioxide. Sand/earth.

Unsuitable extinguishing media : No unsuitable extinguishing media known.

5.2. Special hazards arising from the substance or mixture

Reactivity : Reacts violently with (strong) acids. Thermal decomposition generates : Corrosive vapors.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Other information : No additional information available.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Isolate from fire, if possible, without unnecessary risk. Eliminate every possible source of

ignition.

6.1.1. For non-emergency personnel

Protective equipment : Protective goggles.

Protective gloves.
Face-shield.
Protective clothing.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Contain released substance, pump into suitable containers. Plug the leak, cut off the supply.

Dam up the liquid spill. Take account of toxic/corrosive precipitation water. Heat exposure:

dilute toxic gas/vapor with water spray.

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect

spillage. Store away from other materials. Small quantities of liquid spill: neutralize with dilute

acid solution. Absorb spillage to prevent material damage.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

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 fume, mist, or vapors. Provide good

ventilation in process area to prevent formation of vapor. Eliminate all ignition sources if safe to

do so.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands and forearms thoroughly after

handling. Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations. Incompatible products : Oxidizing agent. Strong acids.

Storage area : Store in a cool, dry well-ventilated area. Keep container tightly closed when not in use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

sodium hydroxide (1310-73-2)		
ACGIH	ACGIH Ceiling (mg/m³)	2 mg/m³
OSHA	OSHA PEL (TWA) (mg/m³)	2 mg/m³

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2-butoxyethanol (111-76-2)		
ACGIH	ACGIH TWA (ppm)	20 ppm
ACGIH	ACGIH STEL (ppm)	20 ppm
OSHA	OSHA PEL (TWA) (mg/m³)	97 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	20 ppm

2-(diethylamino)ethanol (100-37-8)		
ACGIH	ACGIH TWA (ppm)	2 ppm
ACGIH	ACGIH STEL (ppm)	2 ppm
OSHA	OSHA PEL (TWA) (mg/m³)	9.6 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	2 ppm

2-aminoethanol (141-43-5)		
ACGIH	ACGIH TWA (ppm)	3 ppm
ACGIH	ACGIH STEL (ppm)	3 ppm
OSHA	OSHA PEL (TWA) (mg/m³)	2 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	0.46 ppm

8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or face shield.
Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is

recommended.

Other information : When using, do not eat, drink or smoke.

Appropriate engineering controls : Handle in accordance with good industrial hygiene and safety practice. Wash hands before

breaks and at the end of workday.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Color : Clear blue-green

Odor : Floral

Odor threshold : No data available

pH : 13 - 14

Melting point: No data availableFreezing point: No data availableBoiling point: No data available

Flash point : > 200 °F

Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : No data available Explosive limits : No data available Vapor pressure : No data available Vapor density : No data available

Specific Gravity @ 77° F : 1.055 - 1.075

Solubility : Water: Complete

Partition Coefficient n-Octanol-Water : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity : No data available

9.2. Other information

VOC content : < 141 g/l CARB VOC

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SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts violently with (strong) acids. Thermal decomposition generates: Corrosive vapors.

10.2. Chemical stability

Stable under recommended conditions.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Extremely high or low temperatures.

10.5. Incompatible materials

Respiratory or skin sensitization

Strong acids. Oxidizers.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. Thermal decomposition generates: Corrosive vapors.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Acute toxicity	. Not classified
sodium hydroxide (1310-73-2)	
LD50 dermal rabbit	1350 mg/kg (Rabbit; Literature)
ATE US (dermal)	1350.000 mg/kg body weight
2-butoxyethanol (111-76-2)	
LD50 oral rat	530 mg/kg (Rat; Equivalent or similar to OECD 401; Literature study; 1746 mg/kg bodyweight Rat; Experimental value)
LD50 dermal rat	> 2000 mg/kg body weight (Rat; Experimental value; OECD 402: Acute Dermal Toxicity)
LD50 dermal rabbit	435 mg/kg body weight (Rabbit; Experimental value; OECD 402: Acute Dermal Toxicity; 435 mg/kg bodyweight; Rabbit; Weight of evidence; Equivalent or similar to OECD 402)
LC50 inhalation rat (mg/l)	2.17 mg/l/4h (Rat; Experimental value; 2.35 mg/l/4h; Rat; Experimental value)
LC50 inhalation rat (ppm)	450-486,Rat; Weight of evidence
ATE US (oral)	530.000 mg/kg body weight
ATE US (dermal)	435.000 mg/kg body weight
ATE US (gases)	700.000 ppmV/4h
ATE US (vapors)	2.170 mg/l/4h
ATE US (dust, mist)	2.170 mg/l/4h
2-(diethylamino)ethanol (100-37-8)	
LD50 oral rat	1320 mg/kg (Rat)
LD50 dermal rabbit	1109 mg/kg (Rabbit)
ATE US (oral)	1320.000 mg/kg body weight
ATE US (dermal)	1109.000 mg/kg body weight
ATE US (gases)	4500.000 ppmV/4h
ATE US (vapors)	11.000 mg/l/4h
ATE US (dust, mist)	1.500 mg/l/4h
2-aminoethanol (141-43-5)	
LD50 oral rat	1720 mg/kg (Rat)
LD50 dermal rabbit	1018 mg/kg (Rabbit)
ATE US (oral)	1720.000 mg/kg body weight
ATE US (dermal)	1018.000 mg/kg body weight
ATE US (gases)	4500.000 ppmV/4h
ATE US (vapors)	11.000 mg/l/4h
ATE US (dust, mist)	1.500 mg/l/4h
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
	pH: 13 - 14
Serious eye damage/irritation	: Causes serious eye damage.
-	pH: 13 - 14
Skin corrosion/irritation	: Causes severe skin burns and eye damage. pH: 13 - 14 : Causes serious eye damage.

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: May cause an allergic skin reaction.

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Germ cell mutagenicity : Not classified

Based on available data, the classification criteria are not met

Carcinogenicity : Not classified

2-butoxyethanol (111-76-2)

IARC group 3 - Not Classifiable

Reproductive toxicity : Not classified

Based on available data, the classification criteria are not met

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

: Based on available data, the classification criteria are not met

Symptoms/injuries after inhalation : EXPOSURE TO HIGH CONCENTRATIONS: Dry/sore throat. Coughing. Irritation of the

respiratory tract. Irritation of the nasal mucous membranes.

Symptoms/injuries after skin contact : Causes burns/corrosion of the skin. Symptoms/injuries after eye contact : Causes serious eye damage.

Symptoms/injuries after ingestion : Vomiting. Diarrhea. Burns to the gastric/intestinal mucosa. Possible esophageal perforation.

Bleeding of the gastrointestinal tract. Shock. AFTER ABSORPTION OF HIGH QUANTITIES:

Disturbances of consciousness.

SECTION 12: Ecological information

12.1. Toxicity

sodium hydroxide (1310-73-2)	
LC50 fish 1	45.4 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss); Solution >=50%)
EC50 Daphnia 1	40.4 mg/l (48 h; Ceriodaphnia sp.; Nominal concentration)
LC50 fish 2	189 mg/l (48 h; Leuciscus idus)
TLM fish 1	99 mg/l (48 h; Lepomis macrochirus)
TLM fish 2	125 ppm (96 h; Gambusia affinis)
2-butoxyethanol (111-76-2)	
LC50 fish 1	116 ppm (96 h; Cyprinodon variegatus; Nominal concentration)
EC50 Daphnia 1	1700 mg/l (48 h; Daphnia sp.; Nominal concentration)
LC50 fish 2	1341 ppm (96 h; Lepomis macrochirus)
EC50 Daphnia 2	1720 mg/l (24 h; Daphnia magna)
TLM fish 1	100 - 1000,96 h; Pisces
TLM other aquatic organisms 1	100 - 1000,96 h
Threshold limit algae 1	900 mg/l (168 h; Scenedesmus quadricauda)
Threshold limit algae 2	35 mg/l (192 h; Microcystis aeruginosa)
2-(diethylamino)ethanol (100-37-8)	
LC50 fish 1	100 - 220 mg/l (96 h; Leuciscus idus)
EC50 Daphnia 1	83.6 mg/l (48 h; Daphnia magna)
LC50 fish 2	1780 mg/l (96 h; Pimephales promelas)
Threshold limit algae 1	30 mg/l (72 h; Scenedesmus subspicatus)
2-aminoethanol (141-43-5)	
LC50 fish 1	150 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
EC50 Daphnia 1	140 mg/l (24 h; Daphnia magna)
LC50 fish 2	329.16 mg/l (96 h; Lepomis macrochirus)
TLM fish 1	100 - 1000,96 h; Pisces
TLM other aquatic organisms 1	100 - 1000,96 h
Threshold limit algae 1	0.97 mg/l (192 h; Scenedesmus quadricauda; Inhibitory)
Threshold limit algae 2	35 mg/l (72 h; Algae)

12.2. Persistence and degradability

sodium hydroxide (1310-73-2)	
Persistence and degradability	Biodegradability: not applicable. No (test) data on mobility of the substance available.

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sodium hydroxide (1310-73-2)		
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
BOD (% of ThOD)	Not applicable	
2-butoxyethanol (111-76-2)		
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Photodegradation in the air.	
Biochemical oxygen demand (BOD)	0.71 g O2/g substance	
Chemical oxygen demand (COD)	2.20 g O2/g substance	
ThOD	2.305 g O2/g substance	
BOD (% of ThOD)	0.31 % ThOD	
2-(diethylamino)ethanol (100-37-8)		
Persistence and degradability	Readily biodegradable in water.	
Biochemical oxygen demand (BOD)	0.002 g O2/g substance	
Chemical oxygen demand (COD)	0.76 g O2/g substance	
2-aminoethanol (141-43-5)		
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil.	
Biochemical oxygen demand (BOD)	0.80 g O2/g substance	
Chemical oxygen demand (COD)	1.34 g O2/g substance	
ThOD	2.49 g O2/g substance	
BOD (% of ThOD)	0.32 % ThOD	

12.3. Bioaccumulative potential

sodium hydroxide (1310-73-2)	
Bioaccumulative potential	Bioaccumulation: not applicable.
2-butoxyethanol (111-76-2)	
Log Pow	0.81 (Experimental value; BASF test; 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
2-(diethylamino)ethanol (100-37-8)	
Log Pow	0.21 - 0.46
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
2-aminoethanol (141-43-5)	
Log Pow	-1.91
Bioaccumulative potential	Bioaccumulation: not applicable.

12.4. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose of contents/container in accordance with Local, State, and Federal regulations.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

14.1. UN Number

UN-No.(DOT) : 1760

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Other information : Under 49 CFR 173.154(c) and (b)(1): This product may be shipped as ORM-D or Limited Quantity if the inner packagings do not exceed 1 L (0.3 gallons) or 1.0 kg (2.2 lbs). This

provision does not apply to transportation by vessel or aircraft, except where other means of

transportation is impracticable.

14.2. UN proper shipping name

DOT Proper Shipping Name : UN1760, Corrosive Liquids, N.O.S. (Sodium Hydroxide, Ethanolamine), 8, PGII

Hazard labels (DOT) : 8 - Corrosive



SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed on the Toxic Substances Control Act (TSCA) inventory

"	
sodium hydroxide (1310-73-2)	
Listed on the United States TSCA (Toxic Substar	nces Control Act) inventory
RQ (Reportable quantity, section 101(14) of CERCLA as published on EPA's List of Lists) :	1000 lb
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
2-butoxyethanol (111-76-2)	
Listed on the United States TSCA (Toxic Substar Listed on SARA Section 313 (Specific toxic chem	
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard
2-(diethylamino)ethanol (100-37-8)	
Listed on the United States TSCA (Toxic Substar	nces Control Act) inventory
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard
2-aminoethanol (141-43-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard

15.2. International regulations

CANADA

EU-Regulations

No additional information available

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

Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

15.2.2. National regulations

15.3. US State regulations

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer and/or reproductive toxicity

Prop 65 Comments :Diethanolamine (CAS#111-42-2): < 75.4 ppm

Methanol (CAS#67-56-1): < 0.1131%

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SECTION 16: Other information

Abbreviations Legend:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhalation) Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 3	Flammable liquids Category 3
Flam. Liq. 4	Flammable liquids Category 4
Met. Corr. 1	Corrosive to metals Category 1
Skin Corr. 1B	Skin corrosion/irritation Category 1B
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H226	Flammable liquid and vapor
H227	Combustible liquid
H290	May be corrosive to metals
H302	Harmful if swallowed
H311	Toxic in contact with skin
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H331	Toxic if inhaled
H332	Harmful if inhaled
H335	May cause respiratory irritation
H402	Harmful to aquatic life
H412	Harmful to aquatic life with long lasting effects

Disclaimer

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

Revision date: 10/28/2014 Supersedes: 03/27/2013 Version: 1.0

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