



MATERIAL SAFETY DATA SHEET

According to (EC) No 1706/2006 (REACH), 1272/2008 and Regulation (EU) 2015/830

Metal Polish Unipol[®] 2102

Date of Issue: 12.08.2019

Revised: 12.08.2019

1. IDENTIFICATION OF THE SUBSTANCE/ PREPARATION AND OF THE COMPANY

1.1 Trade name: **Metal Polish Unipol[®] 2102 D, Unipol 2102 T**

relevant uses polishing agent

1.3 Details of the supplier of the safety data sheet

Company identification: OSBORN GmbH
Rudolf-Harbig-Weg 10
42781 Haan/Germany
Tel.: +49 (0) 2129-9307-0
Fax : +49(0) 2129-9307-23
Homepage: www.osborn.de
E-mail: polishing@osborn.de

adress enquires to
technical information polishing@osborn.de
safety data sheet sschirpenbach@osborn.de
emergency telephone number
advisory body +49(0)30-30686700 (24h)

2. Hazards identification

2.1 Classification of substance or mixture

no classification

2.2 Label elements:

hazard pictogram

hazardous statements

none

special labelling

special labelling:

EUH210

safety data sheet available on request

2.3 other hazards

human death danger

If swallowed or in the event of vomiting, risk of product entering the lungs

environmental hazards

Does not contain any PBT or vBvB substances

other hazards

further hazards were not determined with the current level of knowledge

3. Composition/ information on ingredients:

Product type: the product is a mixture

range Substance

5-10 %	hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics
	CAS: 64742-47-8, EINECS/ELINCS: 920-107-4, Reg-No.: 01-2119453414-43-XXX GHS/CLP: Asp. Tox. 1: H304
5-10 %	hydrocarbons, C13-C15, iso-alkans, cyclics, < 2 % Aromatics
	CAS: 64742-47-8, EINECS/ELINCS: 918-973-3, Reg-No.: 01-2119458871-30-XXXX GHS/CLP: Asp. Tox. 1: H304



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5-10 %	hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics
	CAS: 64742-47-8, EINECS/ELINCS: 917-488-4, Reg-No.: 01-2119485032-45-XXXX GHS/CLP: Asp. Tox. 1: H304
1-5 %	hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics
	CAS: 64742-47-8, EINECS/ELINCS: 926-141-6, EU- Index: 649-422-00-2, eg-No.: 01- 2119456620-43-XXXX GHS/CLP: Asp. Tox. 1: H304
1-5 %	hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics
	CAS 64742-47-8 EINECS/ELINCS: 917-488-4 Reg No.: 01-2119458943-27-XXXX GHS/CLP: Asp. Tox. 1: H304
<1 %	Ammonia solution
	CAS: 1336-21-6, EINECS/ELINCS: 215-647-6, EU-INDEX: 007-001-01-2, Reg-No.: 01-2119488876-14-XXXX GHS/CLP: Skin Corr. 1B:H314 - Aquatic acute 1:H400 - STOT SE 3: H 335, M = 1

Comment of composition parts substances very high concern - SVHC: substances are not contained or are below 0,1%
For full text of H - statements: see SECTION 16

4. FIRST AID MEASURES:

4.1 Description of first aid measures

General information	Take off contaminated clothing and wash before reuse.
Inhalation	Ensure supply of fresh air. In the event of symptoms seek medical treatment.
skin contact	When in contact with the skin, clean with soap and water. Consult a doctor if irritation persists.
eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
ingestion	Seek medical advice immediately. Do not induce vomiting Rinse out mouth and give plenty water to drink

4.2 Most important symptoms and effects, both acute and delayed

irritant effect

4.3 Indication of any immediate medical attention and special treatment needed

threatened symptomatically
if swallowed or in the event of vomiting, risk of product entering the lungs

5. FIRE-FIGHTING MEASURES:

5.1 Extinguishing media: Foam, dry powder, water spray jet, carbon dioxide

extinguishing media that must not used: full water jet

5.2 Special hazards arising from the substance or mixture

risk of formation of toxic pyrolysis products

5.3 Advice for fire fighters

use self-contained breathing apparatus
cool containers at risk with water spray jet



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first residues and contamination fire fighting water must be disposed of in accordance within the local regulations

6. ACCIDENTAL RELEASE MEASURES:

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate exhaust ventilation.
Keep away from all sources of ignition
high risk of slipping due to leakage/ spillage of product.
user personal protecting clothing

6.2 Environmental precautions: Do not discharge into drains/ surface waters/ groundwater.

6.3 Methodes for cleaning up/taking up: Take up mechanically, send in suitable containers for recovery or disposal.
dispose of absorbed material in accordance within the regulations

6.4 Reference to other sections See Section 8+13

7. HANDLING AND STORAGE

7.1 Precaution and safe handling

Use only in well-ventilated areas.
Provide suitable vacuuming at the processing area.
Keep only in original container.

Keep away from all sources of ignition.

After worktime and before work breaks the affected skin areas must be thoroughly cleaned. Use barrier skin cream.

Do not eat, drink, smoke or take drugs at work.

Take off contaminated clothing and wash before reuse.

7.2 Condition for safe storage, including any incompatibilities

Provide solvent-resistant and impermeable floor.
Prevent penetration into the ground.

Do not store together with oxidizing agents.
Do not store together with food and animal food/diet

Protect from heat/overheating.
Keep container in a well-ventilated place.
Keep container tightly closed.

7.3 Specific end use(s) see product use. SECTION 1.2

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION:

8.1 control parameters

ingredients with occupational exposure limits to be monitored (GB)



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Substance
hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics
CAS: 64742-47-8, EINECS/ELINCS: 917-488-5, Reg-No.: 01-2119485032-45-XXXX
Long term exposure: 600 mg/m ³ , AGS, 2,9 peak limit exceedance factor 2
hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics
EINECS/ELINCS: 920-107-4, Reg-No.: 01-2119453414-43-XXXX
Long term exposure: 600 mg/m ³ , AGS, 2,9 peak limit exceedance factor 2
hydrocarbons, C13-C16, iso-alkans, cyclics, < 2 % Aromatics
CAS: 64742-47-8, EINECS/ELINCS: 918-973-3, Reg-No.: 01-2119458871-30-XXXX
Long term exposure: 600 mg/m ³ , AGS, 2,9 peak limit exceedance factor 2
hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics
EINECS/ELINCS: 917-488-4 Reg No.: 01-2119458943-27-XXXX
Long term exposure: 600 mg/m ³ , AGS, 2,9 peak limit exceedance factor 2
hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics
CAS: 64742-47-8, EINECS/ELINCS: 926-141-6, EU- INdex: 649-422-00-2, Reg-No.: 01- 2119456620-43-XXXX
Long term exposure: 600 mg/m ³ , AGS, 2,9 peak limit exceedance factor 2
Ammonia solution
CAS: 1336-21-6, EINECS/ELINCS: 215-647-6, EU-INDEX: 007-001-01-2, Reg-No.: 01-2119488876-14-XXXX
Long term exposure: 20 ppm, 14 mg/m ³ ; DFG, EU, Y, for NH ₃
peak limit exceedance factor: 40 ppm, 28 mg/m ³ , 2 (I)
Aluminum oxide
CAS 1344-28-1, EINECS/ ELINCS: 215-691-6, Reg-N.: 01-2119529248-35-XXXX
Long term exposure: 10 mg/m ³ , inhalable dust (respirable dust: 4 mg/m ³)

ingredients with occupational exposure limits to be monitored (EU)

Substance/ EC LIMIT VALUES
Ammonia solution
CAS 1336-21-6, EINECS/ ELINCS: 215-647-6, EU-Index: 007-001-01-2, Reg. No.: 01-2119488876-14-XXXX
Eight hours: 20 ppm, 14 mg/m ³

DNEL



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Substance
Ammonia solution
CAS 1336-21-6
Industrial, dermal, Long term-systemic effects: 6,8 mg/kg bw/day (NH3)
Industrial, inhalative, Acute-local effects: 36 mg/m ³ (NH3)
Industrial, inhalative, long-term - local effects: 14 mg/m ³ (NH3)
Industrial, inhalative, long-term - systemic effects: 47,6 mg/m ³ (NH3)
Industrial, inhalative, Acute - systemic effects: 47,6 mg/m ³ (NH3)
Industrial, dermal, Acute - systemic effects 6,8 mg/kg (NH3)
Industrial, oral, Acute- systemic effects 6,8 mg/kg bw/d (NH3)

PNEC

Substance
Ammonia solution CAS: 1336-21-6
Seawater, 0,001 mg/l
Freshwater, 0,001 mg/l

8.2 Exposure controls

Additional advice on system design

Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance of requirements of DIN EN 482. For example, recommendations are given in IFA's list of hazardous substances

Eye protection

Safety glasses. (EN 166:2001)

Hand protection

0,7mm Butyl rubber, >120 min (EN 374-1/-2/-3).
The details concerned are recommendations. Please contact the glove supplier for further information.

Skin protection

Protective clothing (EN340)

other

Do not inhale vapours.
Avoid contact with eyes and skin.
Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.

Respiratory protection

Breathing apparatus in the event of high concentrations.
Short term: filter apparatus, combination filter A-P2. (DIN EN 14387)

thermal hazards

none

Delimitation and monitoring the environmental exposition

Protect the environment by applying appropriate control measures to prevent or limit emissions



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9. PHYSICAL AND CHEMICAL PROPERTIES:

9.1 Information on basic physical and chemical properties

Form:	pasty
Colour:	blue
Odour:	characteristic
odour treshhold:	not required
pH-value:	9-10
pH-value [1%]	not determined
Boiling Point:	not determined
Flash Point [°C]	> 93°C
Flammability (Solid, gas) [°C]	not applicable
lower exposure limit	not determined
upper exposure limit	not determined
oxidising properties:	no
Vapour Pressure/gas pressure[KPa]	not determined
Density [g/ml]	1,17 (20°C, 68°F)
Bulk density [kg/m ³]	not applicable
Solubility in water:	partially miscible
Partition coeffiecient [n-octanol/water]	not determined
viscosity	> 20,5 mm ² /s (40°C)
relative vapour density determined in air	not determined
evaporation speed	not determined
Melting Point	not applicable
autoignition temperature [°C]	not self-igniting
decomposition temperature [°C]	not determined
other information	none

10. STABILITY AND REACTIVITY

10.1 Reactivity	no dangerous reactions known if used as directed
10.2 Chemical stability	The product is stable under standard conditions .
10.3 Possibility of hazardous reactions	Reactions with oxidizing agents. Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.
10.4 Conditions to avoid	Heating
10.5 Incompatible materials	oxidizing agent
10.6 Hazardous decomposition products	No hazardous decomposition products known

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Product



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ATE-mix , inhalative (vapor), > 20 mg/l 4h
ATE-mix, dermal, > 2000 mg/kg
ATE- mix, oral, > 2000 mg/kg

Substance
hydrocarbons, C13-C16, isoalkanes, cyclics, <2% aromatics CAS: 64742-47-8
LD50 dermal, rabbit: > 2000 mg/kg bw.
LD50 oral, Rat: 5000 mg/kg bw.
hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics
LD50 dermal, Rat: > 5000 mg/kg (OECD 402)
LD50 oral, Rat: >5000 mg/kg (OECD 401)
LC50, inhalative, Rat: >5000 mg/m ³ (8h) (OECD 403)
hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics
LD50, dermal, Rabbit: > 5000 mg/kg (OECD 402)
LD50, oral, Rat: > 5000 mg/kg (OECD 401)
LC50, inhalative, Rat: >4951 mg/m ³ (4h) (OECD 403)
Ammonia solution CAS: 1336-21-6
LC50, inhalative, mouse: 91 mg/kg (NH ₃)
LD50 oral, Rat: 350 mg/kg (NH ₃)
LC50, inhalative, Rat: 2000 mg/l (NH ₃)
LDLo, oral, Human: 43 mg/kg (NH ₃)
hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics
LD50 oral, Rat: >15000 mg/kg (OECD 401)
LD50 dermal, Rat: > 5000 mg/kg (OECD 402)
LC50, inhalative, Rat: 25,3 mg/m ³ (4h) (OECD 403)

Serious eye damage/irritation Does not contain any relevant substances fulfilling the classification criteria
Based on the available information, the classification criteria are not fulfilled.
Toxicological data of complete product are not available.

Skin corrosion/irritation Does not contain any relevant substances fulfilling the classification criteria
Based on the available information, the classification criteria are not fulfilled.
Toxicological data of complete product are not available.

Respiratory or skin sensitisation Does not contain any relevant substances fulfilling the classification criteria
Based on the available information, the classification criteria are not fulfilled.
Toxicological data of complete product are not available.



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Specific target organ toxicity — single exposure	— Does not contain any relevant substances fulfilling the classification criteria Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.
Specific target organ toxicity — repeated exposure	— Does not contain any relevant substances fulfilling the classification criteria Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.
Mutagenicity	Does not contain any relevant substances fulfilling the classification criteria Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.
Reproduction toxicity	Does not contain any relevant substances fulfilling the classification criteria Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.
Carcinogeny	Does not contain any relevant substances fulfilling the classification criteria Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.

12 ECOLOGICAL INFORMATION

12.1 Chronic toxicity

Substance
hydrocarbons, C13-C16, iso-alkans, cyclics, < 2 % Aromatics
50, (48h), Daphnia magna: >1000 mg/l (OECD 202)
EL 50, (72h), Pseudokirchneriella subcapitata: > 1000 mg/l (OECD 201)
LL50, (96h), Fish: > 87556 mg/l (OECD 203)
hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics
EL0, (48h), Daphnia magna: 1000 mg/l
EL0, (72h), Pseudokirchneriella subcapitata: > 1000 mg/l
LL0, (96h), Oncorhynchus mykiss: 1000 mg/l
hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics
EL0, (48h), Daphnia magna: 1000 mg/l (Lit)
EL0, (72h), Pseudokirchneriella subcapitata: > 1000 mg/l (Lit)
NOELR, (72h), Pseudokirchneriella subcapitata: 1000 mg/l (Lit)
LL0, (96h), Oncorhynchus mykiss: 1000 mg/l (Lit)
Ammonia solution CAS 1336-21-6
LC50, (96h), Lepomis macrochirus: > 0,2 mg/l
LC50, (96h) Daphnia magna, 0,101 mg/l (NH3)
LC50, (96h) Fish 0,89 mg/l (NH3)
LC50, (96h), Pimephales promelas: >0,7 mg/l



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LC50, (96h), Salmo gairdineri: > 0,1 mg/l
LC50, (96h), Cyprinus carpio: 1,1 mg/l
LC50, (48h) Daphnia magna: 25,4 mg/l
LC50, (96h) Salmo gairdneri
hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics
LC50, (96h), Oncorhynchus mykiss: > 1000 mg/l OECD 203
EC50, (48h), Daphnia magna: > 1000 mg/l OECD 202
EC50 (72h), Pseudokirchneriella subcapitata: > 1000 mg/l OECD 201
NOELR, (28d), Oncorhynchus mykiss: > 1000mg/l
NOELR. (21d), Daphnia magna: > 1000 mg/l

12.2 Persistence and degradability

Behaviour in environment not determined

compartments

Behaviour in sewage plant not determined

Biological degradability not determined

12.3 Bioaccumulative potential accumulation in organism is not expected

12.4 Mobility in soil Spillages may penetrate the soil causing ground water contamination

12.5 Results of PBT and vPvB assessment Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Other adverse effects none known

13. Disposal consideration

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product	Dispose of as hazardous waste. Disposal in an incineration plant in accordance with the regulations of the local authorities
Waste no. (recommended)	070601*
Contaminated packaging	Packaging that cannot be cleaned should be disposed of as for product. Uncontaminated packaging may be taken for recycling
Waste no. (recommended)	150110* 150102

14. TRANSPORT INFORMATION

14.1 UN Number

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable



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Marine transport in accordance with IMDG not applicable
Air transport in accordance with IATA not applicable

14.2 UN proper shipping name

Transport by land according to ADR/RID NO DANGEROUS GOODS
Inland navigation (ADN) NO DANGEROUS GOODS
Marine transport in accordance with IMDG NOT CLASSIFIED AS " NO DANGEROUS GOODS"
Air transport in accordance with IATA NOT CLASSIFIED AS " NO DANGEROUS GOODS"

14.3 Transport hazard class (es)

Transport by land according to ADR/RID not applicable
Inland navigation (ADN) not applicable
Marine transport in accordance with IMDG not applicable
Air transport in accordance with IATA not applicable

14.4. Packaging group

Transport by land according to ADR/RID not applicable
Inland navigation (ADN) not applicable
Marine transport in accordance with IMDG not applicable
Air transport in accordance with IATA not applicable

14.5. Environmental hazards

Transport by land according to ADR/RID no
Inland navigation (ADN) no
Marine transport in accordance with IMDG no
Air transport in accordance with IATA no

14.6 Special precaution for user

relevant information under SECTION 6 to 8

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

not applicable

15. regulatory information

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

EEC-REGULATIONS 1991/689 (2001/118); 2010/75; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2016/2037/EC); (EU) 2015/830; (EU)2016/131; (EU) 517/2014

TRANSPORT-REGULATIONS ADR (2019); IMDG-Code (2019, 39. Amdt.); IATA-DGR (2019).

NATIONAL REGULATIONS (GB): Workplace exposure limits (Second edition, published December 2011).
CHIP 3/ CHIP 4

- Observe employment restrictions no special measures necessary



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for people

- VOC (2004/42/EG) ~4%

15.2 chemical safety assessment not applicable

16. OTHER INFORMATIONES:

16.1 Hazard statements

(section 03)

H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.
H314 Causes severe skin burns and eye damage.
H 318 Cause serious eye damage
H304 May be fatal if swallowed and enters airways

16.2 Abbreviations and acronyms

ADR = Accord europeen relatif au transport international des marchandises Dangereuses par Route
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord europeen relatif au transport international des marchandises dangereuses par voie de navigation interieure
ATE = acute toxicity estimate
CAS = Chemical Abstracts Service
CLP = Classification, Labelling and Packaging
DMEL = Derived Minimum Effect Level
DNEL = Derived No Effect Level
EC50 = Median effective concentration ECB = European Chemicals Bureau
ECB= European Chemical Bureau
EEC = European Economic Community
EINECS = European Inventory of Existing Commercial Chemical Substances
ELINCS = European List of Notified Chemical Substances
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA =International Air Transport Association
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50 = Inhibition concentration, 50%
IMDG = International Maritime Code for Dangerous Goods
IUCLID = International Uniform Chemical information data base
LC50 = Lethal concentration, 50%
LD50 = Median lethal dose, 50%
LOAEL= lowest-observed-adverse-effect level
MARPOL = International Convention for the Prevention of Marine Pollution from Ships
NOAEL = No observed Adverse Effect level
NOEC = No observed Effect concentration
PBT = Persistent, Bioaccumulative and Toxic substance
PNEC = Predicted No-Effect concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
STP = Sewage Treatment Plan
TLV®/TWA = Threshold limit value- time-weighted average TLV®STEL = Threshold limit value- short-time exposure limit VOC = Volatile Organic Compounds
VOC = Volatile organic compound
vPvB = very Persistent and very Bioaccumulative

16.3 Other information

Classification procedure aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects. ()
modified position Section 16 been added: General review

This document complements the technical instructions on usage, but does not substitute them. The information contained herein is based , to our best knowledge, on the technical information available on the product up to date. Users are advised that there is an inherent risk associated to the use of the product for differente purposes to those for which it is intended. This document does not exempt, in any way, the user of the product from the duty of fully understanding and applying all regulatory requirements. It is the sole



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responsability of the receiver of this document to adopt the necessary precautionary measures necessary for the use made of the product. All the information contained herein is provided, exclusively, with the aim of aiding the receiver to comply with his regulatory obligations with regard to the use of dangerous substances. The present list of information must not be considered as exhaustive, not exempting the receiver from adopting other precautions, which may described in documents not mentioned herein, regarding the storage and use of the product, of which the receiver is solely responsible.