Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)

Trade name :	DYNA UV WASH 909		
Revision date :	28-07-2017	**Version :**	1.0.0
Print date :	28-07-2017		

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

1.1 Product identifier

DYNA UV WASH 909 (24149)

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

Relevant identified uses

Reserved for industrial and professional use.

Product Categories [PC]

PC14 - Metal surface treatment products, including galvanic and electroplating products
PC15 - Non-metal-surface treatment products
PC35 - Washing and cleaning products (including solvent based products)

Sector of uses [SU]

SU7 - Printing and reproduction of recorded media

Article categories [AC]

AC8.2 - Paper products: newspapers, magazines

Process categories [PROC]

PROC1 - Use in closed process, no likelihood of exposure
PROC2 - Use in closed, continuous process with occasional controlled exposure
PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
PROC10 - Roller application or brushing
PROC13 - Treatment of articles by dipping and pouring

Environmental release categories [ERC]

ERC4 - Industrial use of processing aids in processes and products, not becoming part of articles
ERC8A - Wide dispersive indoor use of processing aids in open systems

1.3 Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor)

PCO Europe B.V.

Street : Soevereinstraat 9

Postal code/city : 4879NN Etten-Leur

Country : Nederland

Telephone : +31 765032880

1.4 Emergency telephone number

European Emergency number: 112 Only for the purpose of informing medical personnel in cases of acute intoxications. UNITED KINGDOM: National Poison Centre – Poison Information Service 111 IRELAND:Poisons Information Centre of Ireland 01 809 2166

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

None

2.2 Label elements

None

2.3 Other hazards

Other adverse effects

People who suffer from skin sensitazion problems, asthma, allergies, chronic or recurring respiratory illnesses should

not be deployed in any process using this preparation.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

None

3.3 Additional information

All components are expressed in weight percent

SECTION 4: First aid measures

4.1 Description of first aid measures

Description of first aid measures

General information

When in doubt or if symptoms are observed, get medical advice.

Following inhalation

Remove casualty to fresh air and keep warm and at rest. In case of respiratory tract irritation, consult a physician.

In case of skin contact

Wash immediately with: Water and soap In case of skin irritation, consult a physician. Remove contaminated clothing.

After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion

Rinse mouth thoroughly with water. Do NOT induce vomiting. When in doubt or if symptoms are observed, get medical advice.

Self-protection of the first aider

First aider: Pay attention to self-protection!

Information to physician

Symptoms

The following symptoms may occur: Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation).

Hazards

Allergic reactions

Treatment

Treat symptomatically.

4.2 Most important symptoms and effects, both acute and delayed

Subsequent observance for pneumonia and lung oedema. Has degreasing effect on the skin. After ingestion

Symptoms

Following inhalation In case of respiratory tract irritation, consult a physician. Remove victim out of the danger area. If breathing is irregular or stopped, administer artificial respiration. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator.
In case of skin contact Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation).
After eye contact In case of eye irritation consult an ophthalmologist.
After ingestion Subsequent observance for pneumonia and lung oedema.

4.3 Indication of any immediate medical attention and special treatment needed

Get medical advice/attention if you feel unwell.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Foam
Dry extinguishing powder
Carbon dioxide (CO2)
Extinguishing blanket

Unsuitable extinguishing media

All extinguising media can be used

5.2 Special hazards arising from the substance or mixture

In case of fire may be liberated:
Nitrogen oxides (NOx)
Carbon monoxide
Carbon dioxide (CO2)

5.3 Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.
Wear full chemical protective clothing.

5.4 Additional information

Do not inhale explosion and combustion gases.
Do not allow run-off from fire-fighting to enter drains or water courses. Burning produces heavy smoke. Move undamaged containers from immediate hazard area if it can be done safely. Stop and contain spill/release if it can be done safely. If this cannot be done, allow fire to burn under control.
Use water spray jet to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protection equipment.
Provide adequate ventilation.
Wear breathing apparatus if exposed to vapours/dusts/aerosols.
Remove all sources of ignition.

For non-emergency personnel

Remove persons to safety.

For emergency responders

Be aware that gases can spread at ground level (heavier than air) and pay attention to the wind direction.
See protective measures under point 7 and 8.

6.2 Environmental precautions

Do not allow to enter into soil/subsoil.
Do not allow to enter into surface water or drains.
Prevent spread over a wide area (e.g. by containment or oil barriers).
Retain contaminated washing water and dispose it. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3 Methods and material for containment and cleaning up

Clean contaminated articles and floor according to the environmental legislation. Remove all sources of ignition.
Suitable material for taking up:
Absorbing material, organic Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Ensure waste is collected and contained.

6.4 Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handling
Avoid repeated or prolonged skin contact.

Protective measures

All work processes must always be designed so that the following is excluded: If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means. Take precautionary measures against static discharges. Avoid exposure. After contact with skin, wash immediately with plenty of water and soap. 20/21 - When using do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool dry place. Ensure adequate ventilation of the storage area. Keep/Store only in original container.
Do not expose to temperatures above 50 °C.

Technical measures and storage conditions

Technical measures and storage conditions Keep/Store only in original container. Ensure adequate ventilation of the storage area. Recommended storage temperature of 5°C up to 35 °C

Hints on joint storage

Storage class : 10
Storage class (TRGS 510) : 10

Further information on storage conditions

Recommended storage temperature : of 5°C up to 35 °C

7.3 Specific end use(s)

Reserved for industrial and professional use.

Recommendation

Recommendation Observe technical data sheet. Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

To date, no national critical limit values exist.

DNEL/DMEL and PNEC values

PNEC

Limit value type :	PNEC aquatic, freshwater (TRIPROPYLENE GLYCOL MONOBUTYLETHER ; CAS No. : 55934-93-5)
Limit value :	0,564 mg/l
Limit value type :	PNEC aquatic, intermittent release (TRIPROPYLENE GLYCOL MONOBUTYLETHER ; CAS No. : 55934-93-5)
Limit value :	5,64 mg/l
Limit value type :	PNEC aquatic, marine water (TRIPROPYLENE GLYCOL MONOBUTYLETHER ; CAS No. : 55934-93-5)
Limit value :	0,056 mg/l
Limit value type :	PNEC (Industrial) (TRIPROPYLENE GLYCOL MONOBUTYLETHER ; CAS No. : 55934-93-5)
Exposure route :	Soil
Limit value :	0,188 mg/kg
Limit value type :	PNEC sediment, freshwater (TRIPROPYLENE GLYCOL MONOBUTYLETHER ; CAS No. : 55934-93-5)
Limit value :	2,59 mg/kg dwt
Limit value type :	PNEC sediment, marine water (TRIPROPYLENE GLYCOL MONOBUTYLETHER ; CAS No. : 55934-93-5)
Limit value :	0,259 mg/kg dwt

Limit value type : PNEC sewage treatment plant (STP) (TRIPROPYLENE GLYCOL MONOBUTYLETHER ; CAS No. : 55934-93-5)

Limit value : 100 mg/l

8.2 Exposure controls

Personal protection equipment

Personal protection equipment

Eye/face protection

Suitable eye protection

Dust protection eye glasses

Eye glasses with side protection

Skin protection

Avoid repeated or prolonged skin contact.

Hand protection

Wear suitable gloves resistant to chemical penetration.(EN 374//EN 381) Breakthrough time (maximum wearing time) > 480 min. Thickness of the glove material >0,38 MM Suitable material NBR (Nitrile rubber)

Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Filtering Half-face mask (DIN EN 149) The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

8.3 Additional information

Wash contaminated clothing prior to re-use.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : colourless/light yellow

Odour : characteristic

Safety relevant basis data

Melting point/melting range :	(1013 hPa)		not applicable	
Freezing point :	(1013 hPa)		No data available	
Initial boiling point and boiling range :	(1013 hPa)	>	250	°C
Decomposition temperature :	(1013 hPa)		No data available	
Flash point :			126	°C
Ignition temperature :			No data available	
Lower explosion limit :			No data available	
Upper explosion limit :			No data available	
Vapour pressure :	(20 °C)	<	0	hPa
Density :	(20 °C)		0,9 - 0,95	g/cm^3
Relative density :	(20 °C)		No data available	
Water solubility :	(20 °C)		No data available	
pH :			not applicable	
log P O/W :		approx.	1,9	
Viscosity :	(20 °C)	approx.	8	mPa.s
Odour threshold :			No data available	

Evaporation rate :	No data available			
Vapourisation rate :	No data available			
Maximum VOC content (EC) :	0	Wt %	1999/13/EC	
Oxidising liquids :	No data available.			

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

This material is considered to be non-reactive under normal use conditions.

10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe).

10.5 Incompatible materials

Materials to avoid Oxidising agent, strong.

10.6 Hazardous decomposition products

None at room temperature

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute effects

Acute oral toxicity

Parameter :	LD50 (TRIPROPYLENE GLYCOL MONOBUTYLETHER ; CAS No. : 55934-93-5)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 2000 mg/kg

Acute dermal toxicity

Parameter :	LD50 (TRIPROPYLENE GLYCOL MONOBUTYLETHER ; CAS No. : 55934-93-5)
Exposure route :	Dermal
Species :	Rat
Effective dose :	> 2000 mg/kg

Irritant and corrosive effects

Irritation to eyes

Irritating to eyes.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

Aspiration hazard

Harmful: may cause lung damage if swallowed.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

Parameter :	LC50 (TRIPROPYLENE GLYCOL MONOBUTYLETHER ; CAS No. : 55934-93-5)
Species :	Poecilia reticulata (Guppy)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	564 mg/l
Exposure time :	96 h
Method :	OECD 203
Parameter :	LC50 (TRIPROPYLENE GLYCOL MONOBUTYLETHER ; CAS No. : 55934-93-5)
Species :	Daphnia magna (Big water flea)
Evaluation parameter :	Acute (short-term) daphnia toxicity
Effective dose :	> 1000 mg/l
Exposure time :	48 h
Method :	OECD 202

Acute (short-term) algae toxicity

Parameter :	ErC50 (TRIPROPYLENE GLYCOL MONOBUTYLETHER ; CAS No. : 55934-93-5)
Species :	Pseudokirchneriella subcapitata
Evaluation parameter :	Acute (short-term) algae toxicity
Effective dose :	592 mg/l
Exposure time :	5 DAY
Method :	OECD 201

12.2 Persistence and degradability

The single components are biodegradable.

Biodegradation

Parameter :	Biodegradation (TRIPROPYLENE GLYCOL MONOBUTYLETHER ; CAS No. : 55934-93-5)
Effective dose :	> 70 %
Exposure time :	10 DAY
Parameter :	Biodegradation (TRIPROPYLENE GLYCOL MONOBUTYLETHER ; CAS No. : 55934-93-5)
Effective dose :	72 %
Exposure time :	28 DAY
Method :	OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D

12.3 Bioaccumulative potential

Parameter :	Log KOC (TRIPROPYLENE GLYCOL MONOBUTYLETHER ; CAS No. : 55934-93-5)
	Partition coefficient: n-octanol/water
Concentration :	1,9

Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.

12.4 Mobility in soil

There are no data available on the preparation/mixture itself.

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Other adverse effects

slightly hazardous to water (WGK 1)

12.7 Additional ecotoxicological information

None

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Dispose of waste according to applicable legislation.

Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code (91/689/EEC) : 14 06 03* other solvents and solvent mixtures

Waste treatment options

Appropriate disposal / Package

Safe handling: see section 7 Contaminated packages must be completely emptied and can be re-used following proper cleaning.

13.2 Additional information

These codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use.

SECTION 14: Transport information

14.1 UN number

No dangerous good in sense of these transport regulations.

14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

14.4 Packing group

No dangerous good in sense of these transport regulations.

14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

14.6 Special precautions for user

None

SECTION 15: Regulatory information

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

National regulations

Water hazard class (WGK)

Class : nwg (Non-hazardous to water) Classification according to VwVwS

15.2 Chemical safety assessment

Chemical safety assessment There are no data available on the preparation/mixture itself.

15.3 Additional information

USE MAP TEMPLATE https://echa.europa.eu/csr-es-roadmap/use-maps/use-maps-library

SECTION 16: Other information

16.1 Indication of changes

None

16.2 Abbreviations and acronyms

a.i. = Active ingredient
ACGIH = American Conference of Governmental Industrial Hygienists (US)
ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road
AFFF = Aqueous Film Forming Foam
AISE = International Association for Soaps, Detergents and Maintenance Products (joint project of AISE and CEFIC)
AOAC = AOAC International (formerly Association of Official Analytical Chemists)
aq. = Aqueous
ASTM = American Society of Testing and Materials (US)

atm = Atmosphere(s)
B.V. = Beperkt Vennootschap (Limited)
BCF = Bioconcentration Factor
bp = Boiling point at stated pressure
bw = Body weight
ca = (Circa) about
CAS No = Chemical Abstracts Service Number (see ACS - American Chemical Society)
CEFIC = European Chemical Industry Council (established 1972)
CIPAC = Collaborative International Pesticides Analytical Council
CLP = REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.
Conc = Concentration
cP = CentiPoise
cSt = Centistokes
d = Day(s)
DIN = Deutsches Institut für Normung e.V.
DNEL = Derived No-Effect Level
DT50 = Time for 50% loss; half-life
EbC50 = Median effective concentration (biomass, e.g. of algae)
EC = European Community; European Commission
EC50 = Median effective concentration
EINECS = European Inventory of Existing Commercial Chemical Substances (EU, outdated, now replaced by EC Number)
ELINCS = European List of Notified (New) Chemicals (see Tab 7, Background - Guide)
ErC50 = Median effective concentration (growth rate, e.g. of algae)
EU = European Union
EWC = European Waste Catalogue
FAO = Food and Agriculture Organization (United Nations)
GIFAP = Groupement International des Associations Nationales de Fabricants de Produits Agrochimiques (now CropLife International)
h = Hour(s)
hPa = HectoPascal (unit of pressure)
IARC = International Agency for Research on Cancer
IATA = International Air Transport Association
IC50 = Concentration that produces 50% inhibition
IMDG Code = International Maritime Dangerous Goods Code
IMO = International Maritime Organization
ISO = International Organization for Standardization
IUCLID = International Uniform Chemical Information Database
IUPAC = International Union of Pure and Applied Chemistry
kg = Kilogram
Kow = Distribution coefficient between n-octanol and water
kPa = KiloPascal (unit of pressure)
LC50 = Concentration required to kill 50% of test organisms
LD50 = Dose required to kill 50% of test organisms
LEL = Lower Explosive Limit/Lower Explosion Limit
LOAEL = Lowest observed adverse effect level
mg = Milligram
min = Minute(s)
ml = Milliliter
mmHg = Pressure equivalent to 1 mm of mercury (133.3 Pa)
mp = Melting point
MRL = Maximum Residue Limit
MSDS = Material Safety Data Sheet
n.o.s. = Not Otherwise Specified
NIOSH = National Institute for Occupational Safety and Health (US)
NOAEL = No Observed Adverse Effect Level
NOEC = No observed effect concentration
NOEL = No Observable Effect Level
NOx = Oxides of Nitrogen

OECD = Organization for Economic Cooperation and Development
OEL = Occupational Exposure Limits
Pa = Pascal (unit of pressure)
PBT = Persistent, Bioaccumulative or Toxic
pH = -log10 hydrogen ion concentration
pKa = -log10 acid dissociation constant
PNEC = Previsible Non Effect Concentration
POPs = Persistent Organic Pollutants
ppb = Parts per billion
PPE = Personal Protection Equipment
ppm = Parts per million
ppt = Parts per trillion
PVC = Polyvinyl Chloride
QSAR = Quantitative Structure-Activity Relationship
REACH = Registration, Evaluation and Authorization of CHemicals (EU, see NCP)
SI = International System of Units
STEL = Short-Term Exposure Limit
tech. = Technical grade
TSCA = Toxic Substances Control Act (US)
TWA = Time-Weighted Average
vPvB = Very Persistent and Very Bioacccumulative
WHO = World Health Organization = OMS
y = Year(s)

16.3 Key literature references and sources for data

None

16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

16.5 Relevant H- and EUH-phrases (Number and full text)

None

16.6 Training advice

None

16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.