according to Regulation (EC) No. 1907/2006



MULTI - 400 ML

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 08.05.2017

 10.4
 27.06.2017
 304022-00011
 Date of first issue: 11.06.2010

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

1.1 Product identifier

Trade name : MULTI - 400 ML

Product code : 089305540

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

Use of the Sub- : Anti-friction agent and lubricant, Detergent

stance/Mixture

1.3 Details of the supplier of the safety data sheet

Company : Adolf Wuerth GmbH & Co. KG

Reinhold-Würth-Str. 12-17

74653 Künzelsau

Telephone : +49 794015 0

Telefax : +49 794015 10 00

E-mail address of person

responsible for the SDS

: prodsafe@wuerth.com

1.4 Emergency telephone number

Giftnotrufzentrale Berlin +49 30 30686 790. Gesellschaft (07:00 – 18:00 Uhr) +49 794015 2552

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Aerosols, Category 1 H222: Extremely flammable aerosol.

H229: Pressurised container: May burst if heated.

Specific target organ toxicity - single ex-

posure, Category 3

H336: May cause drowsiness or dizziness.

Specific target organ toxicity - repeated

exposure, Category 1

H372: Causes damage to organs through pro-

longed or repeated exposure.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

according to Regulation (EC) No. 1907/2006



MULTI - 400 ML

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 08.05.2017

 10.4
 27.06.2017
 304022-00011
 Date of first issue: 11.06.2010

Hazard pictograms :







Signal word : Danger

Hazard statements : H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H336 May cause drowsiness or dizziness.

H372 Causes damage to organs through prolonged or re-

peated exposure.

Supplemental Hazard

Statements

EUH066

Repeated exposure may cause skin dryness or

cracking.

Precautionary statements :

Prevention:

P210 Keep away from heat, hot surfaces, sparks, open

flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P260 Do not breathe spray.

P271 Use only outdoors or in a well-ventilated area.

Storage:

P410 + P412 Protect from sunlight. Do not expose to tem-

peratures exceeding 50 °C/ 122 °F.

Hazardous components which must be listed on the label:

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Additional Labelling

EUH208 Contains Benzenesulfonic acid, di-C10-18-alkyl derivs., calcium salts. May pro-

duce an allergic reaction.

2.3 Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		
	Registration number		
Hydrocarbons, C9-C11, n-	Not Assigned	Flam. Liq. 3; H226	>= 10 - < 20
alkanes, isoalkanes, cyclics, <2%		STOT SE 3; H336	
aromatics	01-2119463258-33	Asp. Tox. 1; H304	
Hydrocarbons, C9-C10, n-	Not Assigned	Flam, Lig. 3: H226	>= 10 - < 20

according to Regulation (EC) No. 1907/2006



MULTI - 400 ML

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 08.05.2017

 10.4
 27.06.2017
 304022-00011
 Date of first issue: 11.06.2010

alkanes, isoalkanes, cyclics, <2% aromatics	01-2119471843-32	STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Chronic 3; H412	
Hydrocarbons, C10-C13, n-	Not Assigned	STOT RE 1; H372	>= 2,5 - < 10
alkanes, isoalkanes, cyclics, aro-		Asp. Tox. 1; H304	
matics (2-25%)	01-2119473977-17	Aquatic Chronic 3;	
		H412	

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : In the case of accident or if you feel unwell, seek medical ad-

vice immediately.

When symptoms persist or in all cases of doubt seek medical

advice.

Protection of first-aiders : First Aid responders should pay attention to self-protection,

and use the recommended personal protective equipment

when the potential for exposure exists.

If inhaled : If inhaled, remove to fresh air.

Get medical attention if symptoms occur.

In case of skin contact : In case of contact, immediately flush skin with plenty of water.

Remove contaminated clothing and shoes.

Get medical attention. Wash clothing before reuse.

Thoroughly clean shoes before reuse.

In case of eye contact : Flush eyes with water as a precaution.

Get medical attention if irritation develops and persists.

If swallowed : If swallowed, DO NOT induce vomiting.

Get medical attention if symptoms occur. Rinse mouth thoroughly with water.

4.2 Most important symptoms and effects, both acute and delayed

Risks : May cause drowsiness or dizziness.

Causes damage to organs through prolonged or repeated

exposure.

Repeated exposure may cause skin dryness or cracking.

May produce an allergic reaction.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically and supportively.

according to Regulation (EC) No. 1907/2006



MULTI - 400 ML

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 08.05.2017

 10.4
 27.06.2017
 304022-00011
 Date of first issue: 11.06.2010

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water spray

Alcohol-resistant foam Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

Flash back possible over considerable distance. Vapours may form explosive mixtures with air.

Exposure to combustion products may be a hazard to health.

If the temperature rises there is danger of the vessels bursting

due to the high vapor pressure.

Hazardous combustion prod: :

ucts

Carbon oxides

5.3 Advice for firefighters

Special protective equipment:

for firefighters

In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.

Specific extinguishing meth-

ods

Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment. Use water spray to cool unopened containers.

Remove undamaged containers from fire area if it is safe to do

SO.

Evacuate area.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Remove all sources of ignition.

Use personal protective equipment.

Follow safe handling advice and personal protective equip-

ment recommendations.

6.2 Environmental precautions

Environmental precautions : Discharge into the environment must be avoided.

Prevent further leakage or spillage if safe to do so.

Prevent spreading over a wide area (e.g. by containment or oil

barriers).

Retain and dispose of contaminated wash water.

Local authorities should be advised if significant spillages

cannot be contained.

according to Regulation (EC) No. 1907/2006



MULTI - 400 ML

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 08.05.2017

 10.4
 27.06.2017
 304022-00011
 Date of first issue: 11.06.2010

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Non-sparking tools should be used.

Soak up with inert absorbent material.

Suppress (knock down) gases/vapours/mists with a water

spray jet.

For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absor-

bent.

Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter-

mine which regulations are applicable.

Sections 13 and 15 of this SDS provide information regarding

certain local or national requirements.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures : See Engineering measures under EXPOSURE

CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation : Use with local exhaust ventilation.

Use only in an area equipped with explosion proof exhaust

ventilation.

Advice on safe handling : Do not get on skin or clothing.

Do not breathe vapours or spray mist.

Do not swallow.

Avoid contact with eyes.

Handle in accordance with good industrial hygiene and safety

practice.

Keep away from heat and sources of ignition.

Take precautionary measures against static discharges.

Take care to prevent spills, waste and minimize release to the

environment.

Do not spray on an open flame or other ignition source.

Hygiene measures : Ensure that eye flushing systems and safety showers are

located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Store locked up. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations. Do not pierce or burn, even after use. Keep cool. Protect from sun-

light.

according to Regulation (EC) No. 1907/2006



MULTI - 400 ML

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 08.05.2017

 10.4
 27.06.2017
 304022-00011
 Date of first issue: 11.06.2010

Advice on common storage : Do not store with the following product types:

Self-reactive substances and mixtures

Organic peroxides Oxidizing agents Flammable solids Pyrophoric liquids Pyrophoric solids

Self-heating substances and mixtures

Substances and mixtures, which in contact with water, emit

flammable gases

Explosives Gases

Storage class (TRGS 510) : 2B, Aerosol cans and lighters

Recommended storage tem-

perature

10 - 40 °C

Other data : No decomposition if stored and applied as directed. Protect

from frost.

7.3 Specific end use(s)

Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Isobutane	75-28-5	AGW	1.000 ppm 2.400 mg/m3	DE TRGS 900
Peak-limit: excursion factor (category)	4;(II)			
Further information		ission for the review (MAK-commission).	of compounds at the work pl	ace dangerous
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	Not As- signed	AGW	600 mg/m3	DE TRGS 900
Peak-limit: excursion factor (category)	2;(II)			
Further information	Group exposure limit for hydrocarbon solvent mixtures, Commission for dangerous substances, See also No. 2.9 of the TRGS 900			
Hydrocarbons, C9- C10, n-alkanes, isoalkanes, cyclics,	Not As- signed	AGW	600 mg/m3	DE TRGS 900

according to Regulation (EC) No. 1907/2006



MULTI - 400 ML

VersionRevision Date:SDS Number:Date of last issue: 08.05.201710.427.06.2017304022-00011Date of first issue: 11.06.2010

<2% aromatics				
Peak-limit: excur-	2;(II)			
sion factor (catego-				
ry)				
Further information			oon solvent mixtures, Commi	ssion for dan-
			2.9 of the TRGS 900	
Propane	74-98-6	AGW	1.000 ppm	DE TRGS
			1.800 mg/m3	900
Peak-limit: excur-	4;(II)			
sion factor (catego-				
ry)				
Further information			of compounds at the work p	lace dangerous
		(MAK-commission).		
Hydrocarbons,	Not As-	AGW	100 mg/m3	DE TRGS
C10-C13, n-	signed			900
alkanes, isoal-				
kanes, cyclics,				
aromatics (2-25%)				
Peak-limit: excur-	2;(II)			
sion factor (catego-				
ry)	_			
Further information			oon solvent mixtures, Commi	ssion for dan-
	•	·	2.9 of the TRGS 900	I
Butane	106-97-8	AGW	1.000 ppm	DE TRGS
			2.400 mg/m3	900
Peak-limit: excur-	4;(II)			
sion factor (catego-				
ry)	_			
Further information				
	for the health	(MAK-commission).		

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Hydrocarbons, C9- C11, n-alkanes, isoal- kanes, cyclics, <2% aromatics	Workers	Inhalation	Long-term systemic effects	1500 mg/m3
	Workers	Skin contact	Long-term systemic effects	300 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	900 mg/m3
	Consumers	Skin contact	Long-term systemic effects	300 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	300 mg/kg bw/day
Hydrocarbon waxes (petroleum), oxidized	Workers	Inhalation	Long-term systemic effects	0,23 mg/m3
	Workers	Skin contact	Long-term systemic effects	1,7 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0,06 mg/m3

according to Regulation (EC) No. 1907/2006



MULTI - 400 ML

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 08.05.2017

 10.4
 27.06.2017
 304022-00011
 Date of first issue: 11.06.2010

Consumers	Skin contact	Long-term systemic effects	0,8 mg/kg bw/day
Consumers	Ingestion	Long-term systemic	0,8 mg/kg
		effects	bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Distillates (petroleum), hy-	Oral (Secondary Poisoning)	9,33 mg/kg food
drotreated heavy paraffinic		
Hydrocarbon waxes (petroleum),	Fresh water	0,1 mg/l
oxidized		
	Marine water	0,01 mg/l
	Intermittent use/release	1 mg/l
	Sewage treatment plant	100 mg/l
	Fresh water sediment	4270 mg/kg
	Marine sediment	427 mg/kg
	Soil	854 mg/kg
	Oral (Secondary Poisoning)	66,7 mg/kg food

8.2 Exposure controls

Engineering measures

Minimize workplace exposure concentrations.

Use only in an area equipped with explosion proof exhaust ventilation.

Use with local exhaust ventilation.

Personal protective equipment

Eye protection : Wear the following personal protective equipment:

Safety glasses

Hand protection

Material : Nitrile rubber
Break through time : 480 min
Glove thickness : 0,45 mm
Directive : DIN EN 374

Remarks : Choose gloves to protect hands against chemicals depending

on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

Skin and body protection : Wear the following personal protective equipment:

Flame retardant antistatic protective clothing.

Respiratory protection : Use respiratory protection unless adequate local exhaust

ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Filter type : Self-contained breathing apparatus

according to Regulation (EC) No. 1907/2006



MULTI - 400 ML

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 08.05.2017

 10.4
 27.06.2017
 304022-00011
 Date of first issue: 11.06.2010

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : Aerosol containing a liquefied gas

Propellant : Isobutane, Propane, Butane

Colour : light brown

Odour : characteristic

Odour Threshold : No data available

pH : No data available

Melting point/freezing point : No data available

Initial boiling point and boiling

range

Not applicable

Flash point : Not applicable

Evaporation rate : Not applicable

Flammability (solid, gas) : Extremely flammable aerosol.

Upper explosion limit / Upper

flammability limit

11 %(V)

Lower explosion limit / Lower :

flammability limit

1 %(V)

Vapour pressure : Not applicable

Relative vapour density : Not applicable

Density : 0,796 g/cm3 (20 °C)

Method: DIN 51757 Active ingredient

Solubility(ies)

Water solubility : insoluble

Partition coefficient: n-

octanol/water

: Not applicable

Auto-ignition temperature : 200 °C

Decomposition temperature : No data available

Viscosity

Viscosity, kinematic : Not applicable

according to Regulation (EC) No. 1907/2006



MULTI - 400 ML

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 08.05.2017

 10.4
 27.06.2017
 304022-00011
 Date of first issue: 11.06.2010

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

9.2 Other information

Particle size : Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Extremely flammable aerosol.

Vapours may form explosive mixture with air.

If the temperature rises there is danger of the vessels bursting

due to the high vapor pressure.

Can react with strong oxidizing agents.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information on likely routes of : Inhalation exposure Skin contact

Ingestion Eye contact

Acute toxicity

Not classified based on available information.

Components:

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Method: OECD Test Guideline 401

Remarks: Based on data from similar materials

according to Regulation (EC) No. 1907/2006



MULTI - 400 ML

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 08.05.2017

 10.4
 27.06.2017
 304022-00011
 Date of first issue: 11.06.2010

Acute inhalation toxicity : LC50 (Rat): > 5.600 mg/m3

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg

Remarks: Based on data from similar materials

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Remarks: Based on data from similar materials

Acute inhalation toxicity : LC50 (Rat): > 4.951 mg/m3

Exposure time: 4 h
Test atmosphere: vapour

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rabbit): > 3.160 mg/kg

Assessment: The substance or mixture has no acute dermal

toxicity

Remarks: Based on data from similar materials

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%):

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 13,1 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Acute dermal toxicity : LD50 (Rat): > 3.500 mg/kg

Assessment: The substance or mixture has no acute dermal

toxicity

Skin corrosion/irritation

Repeated exposure may cause skin dryness or cracking.

Components:

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics:

Result: Mild skin irritation

Result: Repeated exposure may cause skin dryness or cracking.

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics:

Species: Rabbit

according to Regulation (EC) No. 1907/2006



MULTI - 400 ML

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 08.05.2017

 10.4
 27.06.2017
 304022-00011
 Date of first issue: 11.06.2010

Result: Mild skin irritation

Assessment: Repeated exposure may cause skin dryness or cracking.

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%):

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

Assessment: Repeated exposure may cause skin dryness or cracking.

Serious eye damage/eye irritation

Not classified based on available information.

Components:

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics:

Species: Rabbit

Method: OECD Test Guideline 405

Result: No eye irritation

Remarks: Based on data from similar materials

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics:

Species: Rabbit

Method: OECD Test Guideline 405

Result: No eye irritation

Remarks: Based on data from similar materials

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%):

Species: Rabbit

Method: OECD Test Guideline 405

Result: No eye irritation

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics:

Test Type: Maximisation Test Exposure routes: Skin contact

Species: Guinea pig Result: negative

Remarks: Based on data from similar materials

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics:

according to Regulation (EC) No. 1907/2006



MULTI - 400 ML

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 08.05.2017

 10.4
 27.06.2017
 304022-00011
 Date of first issue: 11.06.2010

Test Type: Maximisation Test Exposure routes: Skin contact

Species: Guinea pig Result: negative

Remarks: Based on data from similar materials

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%):

Test Type: Maximisation Test Exposure routes: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: negative

Germ cell mutagenicity

Not classified based on available information.

Components:

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Method: OECD Test Guideline 471

Result: negative

Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo

cytogenetic assay) Species: Mouse

Application Route: Ingestion

Result: negative

Remarks: Based on data from similar materials

Germ cell mutagenicity- As-

sessment

Classified based on benzene content < 0.1% (Regulation (EC)

1272/2008, Annex VI, Part 3, Note P)

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test

Result: negative

Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo

cytogenetic assay) Species: Mouse

Application Route: Ingestion

Result: negative

Germ cell mutagenicity- As-

sessment

Classified based on benzene content < 0.1% (Regulation (EC)

1272/2008, Annex VI, Part 3, Note P)

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%):

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro

Result: negative

according to Regulation (EC) No. 1907/2006



MULTI - 400 ML

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 08.05.2017

 10.4
 27.06.2017
 304022-00011
 Date of first issue: 11.06.2010

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo

cytogenetic assay) Species: Mouse

Application Route: Ingestion

Result: negative

Carcinogenicity

Not classified based on available information.

Components:

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics:

Species: Rat

Application Route: inhalation (vapour)

Exposure time: 105 weeks

Result: negative

Remarks: Based on data from similar materials

Carcinogenicity - Assess- : Classified based on benzene content < 0.1% (Regulation (EC)

ment 1272/2008, Annex VI, Part 3, Note P)

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics:

Species: Rat

Application Route: inhalation (vapour)

Exposure time: 105 weeks

Result: negative

Remarks: Based on data from similar materials

Carcinogenicity - Assess- : Classified based on benzene content < 0.1% (Regulation (EC)

ment 1272/2008, Annex VI, Part 3, Note P)

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%):

Species: Rat

Application Route: inhalation (vapour)

Exposure time: 13 weeks

Result: negative

Remarks: Based on data from similar materials

Reproductive toxicity

Not classified based on available information.

Components:

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics:

Effects on fertility : Test Type: One-generation reproduction toxicity study

Species: Rat

Application Route: Ingestion

Result: negative

Remarks: Based on data from similar materials

Effects on foetal develop- : Test Type: Embryo-foetal development

according to Regulation (EC) No. 1907/2006



MULTI - 400 ML

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 08.05.2017

 10.4
 27.06.2017
 304022-00011
 Date of first issue: 11.06.2010

ment Species: Rat

Application Route: inhalation (vapour)

Result: negative

Remarks: Based on data from similar materials

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics:

Effects on fertility : Test Type: Reproduction/Developmental toxicity screening

test

Species: Rat

Application Route: inhalation (vapour)

Result: negative

Effects on foetal develop-

ment

Test Type: Embryo-foetal development

Species: Rat

Application Route: inhalation (vapour)

Result: negative

Remarks: Based on data from similar materials

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%):

Effects on fertility : Test Type: Reproduction/Developmental toxicity screening

test

Species: Rat

Application Route: inhalation (vapour)

Result: negative

Effects on foetal develop-

ment

Test Type: Embryo-foetal development

Species: Rat

Application Route: inhalation (vapour)

Result: negative

STOT - single exposure

May cause drowsiness or dizziness.

Components:

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics:

Assessment: May cause drowsiness or dizziness.

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics:

Assessment: May cause drowsiness or dizziness.

STOT - repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Components:

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%):

Target Organs: Central nervous system

Assessment: Causes damage to organs through prolonged or repeated exposure.

according to Regulation (EC) No. 1907/2006



MULTI - 400 ML

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 08.05.2017

 10.4
 27.06.2017
 304022-00011
 Date of first issue: 11.06.2010

Repeated dose toxicity

Components:

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics:

Species: Rat

NOAEL: >= 1.000 mg/kg Application Route: Ingestion Exposure time: 54 Days

Remarks: Based on data from similar materials

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics:

Species: Rat

NOAEL: 10.186 mg/m3

Application Route: inhalation (vapour)

Exposure time: 13 Weeks

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%):

Species: Rat NOAEL: 2,34 mg/l LOAEL: 4,67 mg/l

Application Route: inhalation (vapour)

Exposure time: 6 Months

Remarks: Based on data from similar materials

Aspiration toxicity

Not classified based on available information.

Components:

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%):

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics:

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): > 1.000 mg/l

according to Regulation (EC) No. 1907/2006



MULTI - 400 ML

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 08.05.2017

 10.4
 27.06.2017
 304022-00011
 Date of first issue: 11.06.2010

Exposure time: 96 h

Test substance: Water Accommodated Fraction

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EL50 (Daphnia magna (Water flea)): > 1.000 mg/l

Exposure time: 48 h

Test substance: Water Accommodated Fraction

Method: OECD Test Guideline 202

Toxicity to algae : EL50 (Pseudokirchneriella subcapitata (green algae)): > 1.000

mg/l

Exposure time: 72 h

Test substance: Water Accommodated Fraction

Method: OECD Test Guideline 201

NOELR (Pseudokirchneriella subcapitata (green algae)): 100

mg/l

Exposure time: 72 h

Test substance: Water Accommodated Fraction

Method: OECD Test Guideline 201

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics:

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): > 10 - 30 mg/l

Exposure time: 96 h

Test substance: Water Accommodated Fraction

Method: OECD Test Guideline 203

Remarks: Based on data from similar materials

Toxicity to daphnia and other :

aquatic invertebrates

EL50 (Daphnia magna (Water flea)): > 22 - 46 mg/l

Exposure time: 48 h

Test substance: Water Accommodated Fraction

Method: OECD Test Guideline 202

Remarks: Based on data from similar materials

Toxicity to algae : EL50 (Pseudokirchneriella subcapitata (green algae)): > 1.000

mg/l

Exposure time: 72 h

Test substance: Water Accommodated Fraction

Method: OECD Test Guideline 201

Remarks: Based on data from similar materials

NOELR (Pseudokirchneriella subcapitata (green algae)): 1

mg/l

Exposure time: 72 h

Test substance: Water Accommodated Fraction

Method: OECD Test Guideline 201

Remarks: Based on data from similar materials

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%):

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): > 10 - 100 mg/l

Exposure time: 96 h

Test substance: Water Accommodated Fraction

Method: OECD Test Guideline 203

according to Regulation (EC) No. 1907/2006



MULTI - 400 ML

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 08.05.2017

 10.4
 27.06.2017
 304022-00011
 Date of first issue: 11.06.2010

Toxicity to daphnia and other :

aquatic invertebrates

EL50 (Daphnia magna (Water flea)): 100 - 200 mg/l

Exposure time: 48 h

Test substance: Water Accommodated Fraction

Method: OECD Test Guideline 202

Toxicity to algae : EL50 (Pseudokirchneriella subcapitata (green algae)): > 10 -

100 mg/l

Exposure time: 72 h

Test substance: Water Accommodated Fraction

Method: OECD Test Guideline 201

Remarks: Based on data from similar materials

NOELR (Pseudokirchneriella subcapitata (green algae)): 3

mg/l

Exposure time: 72 h

Test substance: Water Accommodated Fraction

Method: OECD Test Guideline 201

Remarks: Based on data from similar materials

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOELR: 0,28 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

Test substance: Water Accommodated Fraction

Method: OECD Test Guideline 211

Remarks: Based on data from similar materials

12.2 Persistence and degradability

Components:

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 80 % Exposure time: 28 d

Method: OECD Test Guideline 301F

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 89 % Exposure time: 28 d

Method: OECD Test Guideline 301F

Remarks: Based on data from similar materials

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%):

Biodegradability : Result: Readily biodegradable.

Biodegradation: 74,7 % Exposure time: 28 d

Method: OECD Test Guideline 301F

according to Regulation (EC) No. 1907/2006



MULTI - 400 ML

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 08.05.2017

 10.4
 27.06.2017
 304022-00011
 Date of first issue: 11.06.2010

12.3 Bioaccumulative potential

Components:

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%):

Partition coefficient: n-

octanol/water

: log Pow: > 4

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Not relevant

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations.

According to the European Waste Catalogue, Waste Codes

are not product specific, but application specific.

Waste codes should be assigned by the user, preferably in

discussion with the waste disposal authorities.

Contaminated packaging : Empty containers should be taken to an approved waste han-

dling site for recycling or disposal.

Empty containers retain residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury and/or death. If not otherwise specified: Dispose of as unused product. Please ensure aerosol cans are sprayed completely empty

(including propellant)

Waste Code : The following Waste Codes are only suggestions:

used product

160504, gases in pressure containers (including halons) con-

taining dangerous substances

unused product

160504, gases in pressure containers (including halons) con-

taining dangerous substances

uncleaned packagings

150110, packaging containing residues of or contaminated by

dangerous substances

according to Regulation (EC) No. 1907/2006



MULTI - 400 ML

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 08.05.2017

 10.4
 27.06.2017
 304022-00011
 Date of first issue: 11.06.2010

SECTION 14: Transport information

14.1 UN number

ADN : UN 1950
ADR : UN 1950
RID : UN 1950
IMDG : UN 1950
IATA : UN 1950

14.2 UN proper shipping name

ADN : AEROSOLS
ADR : AEROSOLS
RID : AEROSOLS
IMDG : AEROSOLS

IATA : Aerosols, flammable

14.3 Transport hazard class(es)

ADN : 2
ADR : 2
RID : 2
IMDG : 2.1
IATA : 2.1

14.4 Packing group

ADN

Packing group : Not assigned by regulation

Classification Code : 5F Labels : 2.1

ADR

Packing group : Not assigned by regulation

Classification Code : 5F Labels : 2.1 Tunnel restriction code : (D)

RID

Packing group : Not assigned by regulation

Classification Code : 5F Hazard Identification Number : 23 Labels : 2.1

IMDG

Packing group : Not assigned by regulation

Labels : 2.1 EmS Code : F-D, S-U

IATA (Cargo)

according to Regulation (EC) No. 1907/2006



MULTI - 400 ML

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 08.05.2017

 10.4
 27.06.2017
 304022-00011
 Date of first issue: 11.06.2010

Packing instruction (cargo : 203

aircraft)

Packing instruction (LQ) : Y203

Packing group : Not assigned by regulation

203

Labels : Flammable Gas

IATA (Passenger)

Packing instruction (passen-:

ger aircraft)

Packing instruction (LQ) : Y203

Packing group : Not assigned by regulation

Labels : Flammable Gas

14.5 Environmental hazards

ADN

Environmentally hazardous : no

ADR

Environmentally hazardous : no

RID

Environmentally hazardous : no

IMDG

Marine pollutant : no

14.6 Special precautions for user

Not applicable

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

Remarks : Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances,

preparations and articles (Annex XVII)

Not applicable

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

: Not applicable

Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer

Not applicable

Regulation (EC) No 850/2004 on persistent organic pol-

lutants

Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import

of dangerous chemicals

Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

according to Regulation (EC) No. 1907/2006



MULTI - 400 ML

Version 10.4	Revision Date: 27.06.2017		S Number: 4022-00011	Date of last issue: 08.05.2017 Date of first issue: 11.06.2010		
P3a			FLAMMABLE AEF	ROSOLS	Quantity 1 150 t	Quantity 2 500 t
34			Petroleum product gasolines and nap (b) kerosenes (inc fuels), (c) gas oils ing diesel fuels, he heating oils and gablending streams) heavy fuel oils (e) tive fuels serving to purposes and with properties as regardlammability and emental hazards as products referred points (a) to (d)	ohthas, cluding jet (includ- ome as oil ,(d) alterna- he same a similar ards environ- is the	2.500 t	25.000 t
18			Liquefied extremely flam- mable gases (including LPG) and natural gas		50 t	200 t
Water ((Germa	contaminating class any)	:		water endangering ccording VwVwS, Annex 4.		
Volatile	e organic compounds	:	emissions (integra Volatile organic co	rective 2010/75/EU of 24 November 2010 on industrial nissions (integrated pollution prevention and control) platile organic compounds (VOC) content: 87,95 %, 604,3 g/lemarks: VOC content excluding water		
	tion (EC) No. 04, as amended	:	30 % and more: Aliphatic hydrocarbons Other constituents: Perfumes			

Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Full text of H-Statements

H226 : Flammable liquid and vapour.

H304 : May be fatal if swallowed and enters airways.

H336 : May cause drowsiness or dizziness.

H372 : Causes damage to organs through prolonged or repeated

exposure.

H412 : Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

according to Regulation (EC) No. 1907/2006



MULTI - 400 ML

Date of last issue: 08.05.2017 Version Revision Date: SDS Number: 304022-00011 Date of first issue: 11.06.2010 10.4 27.06.2017

Aquatic Chronic Chronic aquatic toxicity Asp. Tox. Aspiration hazard Flam. Lig. Flammable liquids

STOT RE Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure STOT SE

Germany. TRGS 900 - Occupational exposure limit values. DE TRGS 900

DE TRGS 900 / AGW Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways: ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road: AICS - Australian Inventory of Chemical Substances: ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx -Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

compile the Safety Data Sheet

Sources of key data used to : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen-

cy, http://echa.europa.eu/

Classification of the mixture:

Classification procedure:

Aerosol 1 H222, H229 Based on product data or assessment

STOT SE 3 Calculation method H336 STOT RE 1 H372 Calculation method

according to Regulation (EC) No. 1907/2006



MULTI - 400 ML

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 08.05.2017

 10.4
 27.06.2017
 304022-00011
 Date of first issue: 11.06.2010

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

DE / EN