according to Regulation (EC) No. 1907/2006

Carsystem 2K Hardener Air Plus

Version Revision Date: Date of last issue: 12.10.2023 3.0 DE / EN 08.11.2023 Date of first issue: 18.07.2022

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

1.1 Product identifier

Trade name : Carsystem 2K Hardener Air Plus

Product code : 152.419

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

Use of the Sub- : Curing chemical

stance/Mixture

Recommended restrictions : Restricted to professional users. Attention - Avoid exposure -

on use obtain special instructions before use.

1.3 Details of the supplier of the safety data sheet

Company : JASA AG

Müslistrasse 43 8957 Spreitenbach

Schweiz

info@jasa-ag.ch, www.jasa-ag.ch

Telephone : +41 (0)44 431 60 70 Telefax : +41 (0)44 432 63 17

Responsible Department : Productmanagement, Tel: +41 (0)44 431 60 70, sds@jasa-ag.ch

1.4 Emergency telephone

Telephone : Tox Info Suisse (STIZ), Tel: 145

according to Regulation (EC) No. 1907/2006

Carsystem 2K Hardener Air Plus

Version Revision Date: Date of last issue: 12.10.2023 3.0 DE / EN 08.11.2023 Date of first issue: 18.07.2022

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 2 H225: Highly flammable liquid and vapor.

Eye irritation, Category 2 H319: Causes serious eye irritation.

Skin sensitization, Category 1 H317: May cause an allergic skin reaction.

Specific target organ toxicity - single exposure, Category 3, Central nervous

system

H336: May cause drowsiness or dizziness.

2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms :





Signal Word : Danger

Hazard Statements : H225 Highly flammable liquid and vapor.

H317 May cause an allergic skin reaction.H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Supplemental Hazard : EUH066 Repeated exposure may cause skin

Statements dryness or cracking.

Precautionary Statements : Prevention:

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

flames and other ignition sources. No smoking.

P261 Avoid breathing mist or vapors.

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

P280 Wear protective gloves/ protective clothing/ eye protec-

tion/ face protection.

Response:

P333 + P313 If skin irritation or rash occurs: Get medical

advice/ attention.

Disposal:

P501 Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regu-

lations.

according to Regulation (EC) No. 1907/2006

Carsystem 2K Hardener Air Plus

Version Revision Date: Date of last issue: 12.10.2023 3.0 DE / EN 08.11.2023 Date of first issue: 18.07.2022

Hazardous ingredients which must be listed on the label:

n-butyl acetate Hexamethylene-di-isocyanate, polymer aromatic polyisocyanate 4-isocyanatosulphonyltoluene m-tolylidene diisocyanate

Additional Labeling

EUH204 Contains isocyanates. May produce an allergic reaction.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Mixture

contains Isocyanates

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
n-butyl acetate	123-86-4 204-658-1 607-025-00-1 01-2119485493-29	Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system) EUH066	>= 25 - <= 50
2-methoxy-1-methylethyl acetate	108-65-6 203-603-9 607-195-00-7 01-2119475791-29	Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system)	>= 10 - < 20
Hexamethylene-di-isocyanate, polymer	28182-81-2 500-060-2 01-2119485796-17	Acute Tox. 4; H332 Skin Sens. 1; H317 STOT SE 3; H335 (Respiratory system)	>= 10 - < 20

according to Regulation (EC) No. 1907/2006

Carsystem 2K Hardener Air Plus

VersionRevision Date:Date of last issue: 12.10.20233.0DE / EN08.11.2023Date of first issue: 18.07.2022

		Acute toxicity esti- mate Acute inhalation tox- icity (dust/mist): 1,5 mg/l	
aromatic polyisocyanate	53317-61-6 500-120-8	Eye Irrit. 2; H319 Skin Sens. 1B; H317 specific concentration limit Skin Sens. 1B 1 % Acute toxicity estimate	>= 10 - < 20
		Acute oral toxicity: > 2.000 mg/kg Acute inhalation toxicity (dust/mist): > 5 mg/l Acute dermal toxicity: > 2.000 mg/kg	
ethyl acetate	141-78-6 205-500-4 607-022-00-5 01-2119475103-46	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 (Central nervous system) EUH066	>= 1 - <= 7,5
4-isocyanatosulphonyltoluene	4083-64-1 223-810-8 615-012-00-7 01-2119980050-47	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 STOT SE 3; H335 (Respiratory system) EUH014 specific concentration limit Eye Irrit. 2; H319 >= 5 % STOT SE 3; H335 >= 5 % Skin Irrit. 2; H315 >= 5 %	>= 0,1 - < 1
m-tolylidene diisocyanate	26471-62-5 247-722-4 615-006-00-4 01-2119454791-34	Acute Tox. 2; H330 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334	>= 0,01 - < 0,05

according to Regulation (EC) No. 1907/2006

Carsystem 2K Hardener Air Plus

Version 3.0	DE / EN	Revision Date: 08.11.2023	Date of last issue: 12.10.2023 Date of first issue: 18.07.2022
			Skin Sens. 1; H317 Carc. 2; H351 STOT SE 3; H335 (Respiratory system) Aquatic Chronic 3; H412 specific concentration limit Resp. Sens. 1; H334 >= 0,1 %

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.

Move out of dangerous area.

Take off contaminated clothing and shoes immediately.

Wash contaminated clothing before re-use.

Do not leave the victim unattended.

Symptoms of poisoning may appear several hours later. Show this material safety data sheet to the doctor in attend-

ance.

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

and use the recommended protective clothing

If inhaled : Move to fresh air.

Keep patient warm and at rest.

If breathing is irregular or stopped, administer artificial respira-

tion.

Call a physician immediately.

In case of skin contact : Wash off immediately with soap and plenty of water.

Call a physician if irritation develops or persists.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,

for at least 15 minutes.

Keep eye wide open while rinsing.

If easy to do, remove contact lens, if worn.

Consult a physician.

If swallowed : Do NOT induce vomiting.

Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Risks : May cause an allergic skin reaction.

Causes serious eye irritation.

according to Regulation (EC) No. 1907/2006

Carsystem 2K Hardener Air Plus

Version Revision Date: Date of last issue: 12.10.2023 3.0 DE / EN 08.11.2023 Date of first issue: 18.07.2022

May cause drowsiness or dizziness.

Repeated exposure may cause skin dryness or cracking.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

Keep under medical supervision for at least 48 hours.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Carbon dioxide (CO2)

Dry powder

Sand

Alcohol-resistant foam

Unsuitable extinguishing

media

Water

High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire

fighting

Build-up of dangerous/toxic fumes possible in cases of

fire/high temperature.

If the temperature rises there is danger of the vessels bursting

due to the high vapor pressure.

Cool closed containers exposed to fire with water spray.

Vapors may form explosive mixtures with air.

Hazardous combustion prod-

ucts

Hazardous decomposition products due to incomplete com-

bustion

Carbon monoxide, carbon dioxide and unburned hydrocar-

bons (smoke).

Nitrogen oxides (NOx)

Isocyanates

5.3 Advice for firefighters

Special protective equipment :

for fire-fighters

In the event of fire and/or explosion do not breathe fumes. In the event of fire, wear self-contained breathing apparatus. Use

personal protective equipment. Complete suit protecting

against chemicals

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

In the event of fire and/or explosion do not breathe fumes.

according to Regulation (EC) No. 1907/2006

Carsystem 2K Hardener Air Plus

Version Revision Date: Date of last issue: 12.10.2023 3.0 DE / EN 08.11.2023 Date of first issue: 18.07.2022

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Wear personal protective equipment.

Evacuate personnel to safe areas.

Ensure adequate ventilation, especially in confined areas.

Avoid contact with skin, eyes and clothing.

In the case of vapor formation use a respirator with an ap-

proved filter.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.

Local authorities should be advised if significant spillages

cannot be contained.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Sweep up and shovel into suitable containers for disposal. After approximately one hour, transfer to waste container and

do not seal, due to evolution of carbon dioxide. Waste must NOT be included in a tight way.

Do not flush with water.

6.4 Reference to other sections

For personal protection see section 8., For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Local/Total ventilation : Use only with adequate ventilation.

Advice on safe handling : Avoid exposure - obtain special instructions before use.

All processes must be supervised by specialists or authorized

personnel.

Provide sufficient air exchange and/or exhaust in work rooms.

Keep container closed when not in use. Wear personal protective equipment.

Avoid formation of aerosol. Do not breathe vapors, aerosols.

Persons allergic to isocyanates, and particularly those suffering from asthma or other respiratory conditions, should not

work with isocyanates.

Advice on protection against

fire and explosion

Vapors may form explosive mixture with air. Vapors are heavier than air and may spread along floors. Use explosion-proof equipment. No sparking tools should be used. Take measures to prevent the build up of electrostatic charge. Keep away

according to Regulation (EC) No. 1907/2006

Carsystem 2K Hardener Air Plus

Version Revision Date: Date of last issue: 12.10.2023 3.0 DE / EN 08.11.2023 Date of first issue: 18.07.2022

from open flames, hot surfaces and sources of ignition.

Hygiene measures : General industrial hygiene practice. Persons already sensi-

tized to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. Take off all contaminated clothing immedi-

ately. Wash contaminated clothing before re-use.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: Store in original container. Keep containers tightly closed in a

dry, cool and well-ventilated place.

Further information on stor-

age conditions

Storage must be in accordance with the BetrSichV (Germany).

Keep locked up or in an area accessible only to qualified or

authorized persons. Protect from moisture.

Keep away from direct sunlight. Keep away from heat and

sources of ignition.

Advice on common storage : Keep away from food and drink.

Incompatible with oxidizing agents.

Storage class (TRGS 510) : 3

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
n-butyl acetate	123-86-4	AGW	62 ppm	DE TRGS
			300 mg/m3	900
	Peak-limit cat	egory: 2;(I)		
	Further inform	nation: When there is	compliance with the OEL ar	nd biological
			of harming the unborn child	-
		STEL	150 ppm	2019/1831/E
			723 mg/m3	U
	Further inform	nation: Indicative		
		TWA	50 ppm	2019/1831/E
			241 mg/m3	U
	Further inform	nation: Indicative		
2-methoxy-1-	108-65-6	STEL	100 ppm	2000/39/EC
methylethyl ace-			550 mg/m3	
tate				

according to Regulation (EC) No. 1907/2006

Carsystem 2K Hardener Air Plus

Version Revision Date: Date of last issue: 12.10.2023 3.0 DE / EN 08.11.2023 Date of first issue: 18.07.2022

	Further inforn	nation: Identifies the	possibility of significant upta	ke through the
	skin, Indicativ			
		TWA	50 ppm 275 mg/m3	2000/39/EC
	Further inforn skin, Indicativ		possibility of significant upta	ke through the
	,	AGW	50 ppm 270 mg/m3	DE TRGS 900
	Peak-limit cat	egory: 1;(I)		
	Further inforn tolerance value	nation: When there i	s compliance with the OEL a of harming the unborn child	nd biological
ethyl acetate	141-78-6	STEL	400 ppm 1.468 mg/m3	2017/164/EU
	Further inforn	nation: Indicative		
		TWA	200 ppm 734 mg/m3	2017/164/EU
	Further inforn	Further information: Indicative		
		AGW	200 ppm 730 mg/m3	DE TRGS 900
	Peak-limit cat	egory: 2;(I)		•
			s compliance with the OEL a of harming the unborn child	nd biological
m-tolylidene diiso- cyanate	26471-62-5	AGW	0,005 ppm 0,035 mg/m3	TRGS 430
<u>, </u>	Peak-limit cat	egory: 1;=4=(I)	, ,	<u>'</u>
	Further information: In well-founded cases also a momentary value can be established, that never can be exceeded. This substance will be indicated by = = in combination with an exceeding value., airway sensitizing substance			
		AGW (Vapour	0,005 ppm	DE TRGS
		and aerosols)	0,035 mg/m3	900
		egory: 1;=4=(I)		
	tablished, tha	t never can be exce n with an exceeding	cases also a momentary val eded. This substance will be value., Substance sensitizin	indicated by = =

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

Substance name	End Use	Routes of expo- sure	Potential health effects	Value
n-butyl acetate	Workers	Inhalation	Long-term systemic effects, Long-term local effects	300 mg/m3
	Workers	Inhalation	Acute systemic effects	600 mg/m3
	Workers	Dermal	Long-term systemic effects, Acute systemic effects	11 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects, Long-term local effects	35,7 mg/m3
	Consumers	Inhalation	Acute systemic ef- fects	300 mg/m3

according to Regulation (EC) No. 1907/2006

Carsystem 2K Hardener Air Plus

Version Revision Date: Date of last issue: 12.10.2023 3.0 DE / EN 08.11.2023 Date of first issue: 18.07.2022

	Consumers	Dermal	Long-term systemic effects, Acute systemic effects	6 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects, Acute systemic effects	2 mg/kg bw/day
2-methoxy-1- methylethyl acetate	Workers	Inhalation	Long-term systemic effects	275 mg/m3
	Workers	Skin contact	Long-term systemic effects	796 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	33 mg/m3
	Consumers	Skin contact	Long-term systemic effects	320 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	36 mg/kg bw/day
Hexamethylene-di- isocyanate, polymer	Workers	Inhalation	Long-term local effects	0,5 mg/m3
	Workers	Inhalation	Acute local effects	1 mg/m3
ethyl acetate	Workers	Inhalation	Long-term systemic effects, Long-term local effects	734 mg/m3
	Workers	Inhalation	Acute systemic effects, Acute local effects	1468 mg/m3
	Workers	Skin contact	Long-term systemic effects	63 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects, Long-term local effects	367 mg/m3
	Consumers	Inhalation	Acute systemic effects, Acute local effects	734 mg/m3
	Consumers	Skin contact	Long-term systemic effects	37 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	4,5 mg/kg bw/day
4- isocyanatosulpho- nyltoluene	Workers	Inhalation	Long-term systemic effects	3,24 mg/m3
	Workers	Skin contact	Long-term systemic effects	0,92 mg/kg
	Consumers	Inhalation	Long-term systemic effects	0,8 mg/m3
	Consumers	Skin contact	Long-term systemic effects	0,46 mg/kg
	Consumers	Oral	Long-term systemic effects	0,46 mg/kg

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

Substance name	Environmental Compartment	Value
n-butyl acetate	Fresh water	0,18 mg/l

according to Regulation (EC) No. 1907/2006

Carsystem 2K Hardener Air Plus

Version Revision Date: Date of last issue: 12.10.2023 3.0 DE / EN 08.11.2023 Date of first issue: 18.07.2022

	Sea water	0,018 mg/l
	Fresh water sediment	0,981 mg/kg dry
		weight (d.w.)
	Sea sediment	0,098 mg/kg dry
		weight (d.w.)
	Sewage treatment plant (STP)	35,6 mg/l
	Soil	0,09 mg/kg dry
		weight (d.w.)
2-methoxy-1-methylethyl acetate	Fresh water	0,635 mg/l
	Sea water	0,064 mg/l
	Sewage treatment plant (STP)	100 mg/l
	Fresh water sediment	3,29 mg/kg dry
		weight (d.w.)
	Sea sediment	0,329 mg/kg dry
		weight (d.w.)
	Soil	0,29 mg/kg dry
		weight (d.w.)
Hexamethylene-di-isocyanate,	Fresh water	0,1 mg/l
polymer		
	Sea water	0,01 mg/l
	Sewage treatment plant (STP)	100 mg/l
	Fresh water sediment	2530 mg/kg
	Sea sediment	253 mg/kg
	Soil	505 mg/kg
ethyl acetate	Fresh water	0,24 mg/l
	Sea water	0,024 mg/l
	Fresh water sediment	1,15 mg/kg dry
		weight (d.w.)
	Sea sediment	0,115 mg/kg dry
		weight (d.w.)
	Sewage treatment plant (STP)	650 mg/l
	Soil	0,148 mg/kg dry
		weight (d.w.)
	Oral (Secondary Poisoning)	200 mg/kg food
4-isocyanatosulphonyltoluene	Fresh water	0,03 mg/l
	Sea water	0,003 mg/l
	Sewage treatment plant (STP)	0,4 mg/l
	Fresh water sediment	0,172 mg/kg
	Sea sediment	0,017 mg/kg

8.2 Exposure controls

Personal protective equipment

Eye/face protection : Safety glasses with side-shields conforming to EN166

Hand protection

Material : Nitrile rubber

Material : butyl-rubber

Material : PVA

according to Regulation (EC) No. 1907/2006

Carsystem 2K Hardener Air Plus

Version Revision Date: Date of last issue: 12.10.2023 3.0 DE / EN 08.11.2023 Date of first issue: 18.07.2022

Break through time : > 480 min
Glove thickness : >= 0,7 mm
Directive : DIN EN 374
Protective index : Class 6

Remarks : Gloves should be discarded and replaced if there is any indi-

cation of degradation or chemical breakthrough. The data about break through time/strength of material are standard values! The exact break through time/strength of material has to be obtained from the producer of the protective glove. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different

from one producer to the other.

Skin and body protection : Please wear suitable protective clothing, e.g. made of cotton

or heat-resistant synthetic fibres.

Long sleeved clothing

Respiratory protection : In order to avoid inhalation of spray-mist and sanding dust, all

spraying and sanding must be done wearing adequate respi-

rator.

Apply technical measures to comply with the occupational

exposure limits.

When workers are facing concentrations above the exposure

limit they must use appropriate certified respirators.

Equipment should conform to EN 14387

Filter type : Combined particulates and organic vapor type (A-P)

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

located close to the working place.

Handle in accordance with good industrial hygiene and safety

practice.

In case of insufficient ventilation, wear suitable respiratory

equipment.

Avoid contact with the skin and the eyes. Do not breathe vapors or spray mist. When using do not eat, drink or smoke.

Environmental exposure controls

Soil : Avoid subsoil penetration.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : liquid

Color : colorless

Odor : characteristic

according to Regulation (EC) No. 1907/2006

Carsystem 2K Hardener Air Plus

Version Revision Date: Date of last issue: 12.10.2023 3.0 DE / EN 08.11.2023 Date of first issue: 18.07.2022

Melting point/freezing point : not determined

Boiling point/boiling range : 77 °C

Upper explosion limit / Upper :

flammability limit

15 %(V)

Lower explosion limit / Lower :

flammability limit

1,2 %(V)

Flash point : < 23 °C

Autoignition temperature : not determined

pH : Not applicable substance/mixture reacts with water

Viscosity

Viscosity, dynamic : not determined

Viscosity, kinematic : not determined

Solubility(ies)

Water solubility : Reacts with water., Decomposition

Partition coefficient: n-

octanol/water

: not determined

Vapor pressure : 98 hPa (20 °C)

55 hPa (50 °C)

Density : 0,99 - 1,02 g/cm3 (20 °C)

9.2 Other information

Explosives : Not explosive

In use, may form flammable/explosive vapor-air mixture.

Flammability (liquids) : Flammable

Self-ignition : not auto-flammable

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if used as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

according to Regulation (EC) No. 1907/2006

Carsystem 2K Hardener Air Plus

Version Revision Date: Date of last issue: 12.10.2023 3.0 DE / EN 08.11.2023 Date of first issue: 18.07.2022

Hazardous reactions : Amines and alcohols cause exothermic reactions.

Mixture reacts slowly with water resulting in evolution of CO2. Evolution of CO2 in closed containers causes overpressure

and produces a risk of bursting.
Incompatible with oxidizing agents.
Incompatible with strong acids and bases.
Vapors may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : Avoid moisture.

Extremes of temperature and direct sunlight.

10.5 Incompatible materials

Materials to avoid : Amines

Alcohols

Acids and bases

Water

Oxidizing agents

10.6 Hazardous decomposition products

Build-up of dangerous/toxic fumes possible in cases of fire/high temperature. Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

Nitrogen oxides (NOx)

Isocyanates

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Not classified based on available information.

Product:

Acute inhalation toxicity : Acute toxicity estimate: > 5 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist Method: Calculation method

Components:

n-butyl acetate:

Acute oral toxicity : LD50 (Rat): 10.760 mg/kg

Method: OECD Test Guideline 423

Acute inhalation toxicity : LD50 (Rat): > 21 mg/l

Exposure time: 4 h
Test atmosphere: vapor

Method: OECD Test Guideline 403

according to Regulation (EC) No. 1907/2006

Carsystem 2K Hardener Air Plus

Version Revision Date: Date of last issue: 12.10.2023 3.0 DE / EN 08.11.2023 Date of first issue: 18.07.2022

Acute dermal toxicity : LD50 Dermal (Rabbit): 14.112 mg/kg

Method: OECD Test Guideline 402

2-methoxy-1-methylethyl acetate:

Acute oral toxicity : LD50 Oral (Rat): 6.190 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : Assessment: The substance or mixture has no acute inhala-

tion toxicity

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

Method: OECD Test Guideline 402

Hexamethylene-di-isocyanate, polymer:

Acute oral toxicity : LD50 Oral (Rat): > 2.000 mg/kg

Method: OECD Test Guideline 423

Acute inhalation toxicity : Acute toxicity estimate: 1,5 mg/l

Exposure time: 4 h
Test atmosphere: dust/mist
Method: Expert judgment

LC50 (Rat): 0,39 mg/l Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 Dermal (Rat): > 2.000 mg/kg

Method: OECD Test Guideline 402

aromatic polyisocyanate:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg

Method: Acute toxicity estimate according to Regulation (EC)

No. 1272/2008

Acute inhalation toxicity : Acute toxicity estimate: > 5 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: Acute toxicity estimate according to Regulation (EC)

No. 1272/2008

Acute dermal toxicity : Acute toxicity estimate: > 2.000 mg/kg

Method: Acute toxicity estimate according to Regulation (EC)

No. 1272/2008

ethyl acetate:

Acute oral toxicity : LD50 Oral (Rat): 4.934 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC0 (Rat): 22,5 mg/l, > 6000 ppm

according to Regulation (EC) No. 1907/2006

Carsystem 2K Hardener Air Plus

Version Revision Date: Date of last issue: 12.10.2023 3.0 DE / EN 08.11.2023 Date of first issue: 18.07.2022

Exposure time: 6 h
Test atmosphere: vapor

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Acute dermal toxicity : LD50 Dermal (Rabbit): > 20.000 mg/kg

4-isocyanatosulphonyltoluene:

Acute oral toxicity : LD50 Oral (Rat): 2.330 mg/kg

Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 Dermal (Rat): > 2.000 mg/kg

Method: OECD Test Guideline 402

m-tolylidene diisocyanate:

Acute oral toxicity : LD50 Oral (Rat): 5.110 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50: 66 ppm

Exposure time: 1 h
Test atmosphere: vapor

Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 Dermal (Rabbit): > 9.400 mg/kg

Method: OECD Test Guideline 402

Skin corrosion/irritation

Repeated exposure may cause skin dryness or cracking.

Components:

Hexamethylene-di-isocyanate, polymer:

Species : Rabbit

Assessment : No skin irritation

Method : OECD Test Guideline 404

m-tolylidene diisocyanate:

Result : Skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Components:

Hexamethylene-di-isocyanate, polymer:

Species : Rabbit

Assessment : No eye irritation

Method : OECD Test Guideline 405

aromatic polyisocyanate:

according to Regulation (EC) No. 1907/2006

Carsystem 2K Hardener Air Plus

Version Revision Date: Date of last issue: 12.10.2023 3.0 DE / EN 08.11.2023 Date of first issue: 18.07.2022

Result : Moderate eye irritation

m-tolylidene diisocyanate:

Result : Risk of serious damage to eyes.

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Not classified based on available information.

Components:

Hexamethylene-di-isocyanate, polymer:

Test Type : Local lymph node assay (LLNA)

Routes of exposure : Skin contact Species : Mouse

Assessment : May cause sensitization by skin contact.

Method : OECD Test Guideline 429

Result : positive

aromatic polyisocyanate:

Routes of exposure : Skin contact

Assessment : The product is a skin sensitizer, sub-category 1B.

m-tolylidene diisocyanate:

Assessment : May cause sensitization by inhalation. Result : May cause sensitization by skin contact.

Germ cell mutagenicity

Not classified based on available information.

Components:

Hexamethylene-di-isocyanate, polymer:

Genotoxicity in vitro : Test Type: Microbial mutagenesis assay (Ames test)

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471 Result: Not mutagenic in Ames Test.

Carcinogenicity

Not classified based on available information.

Components:

m-tolylidene diisocyanate:

Carcinogenicity - Assess-

: Limited evidence of a carcinogenic effect.

ment

according to Regulation (EC) No. 1907/2006

Carsystem 2K Hardener Air Plus

Version Revision Date: Date of last issue: 12.10.2023 3.0 DE / EN 08.11.2023 Date of first issue: 18.07.2022

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

May cause drowsiness or dizziness.

Components:

2-methoxy-1-methylethyl acetate:

Routes of exposure : Oral

Target Organs : Central nervous system

Assessment : May cause drowsiness or dizziness.

Hexamethylene-di-isocyanate, polymer:

Routes of exposure : Inhalation

Assessment : May cause respiratory irritation.

m-tolylidene diisocyanate:

Assessment : May cause respiratory irritation.

STOT-repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

Hexamethylene-di-isocyanate, polymer:

Species : Rat, male and female

NOAEL : 0,0033 mg/l
Application Route : Inhalation
Test atmosphere : dust/mist
Exposure time : 90d
Number of exposures : 6h / d

Dose : 0 - 0,0005 - 0,003 - 0,0264 Method : OECD Test Guideline 413

Aspiration toxicity

Not classified based on available information.

Components:

m-tolylidene diisocyanate:

No aspiration toxicity classification

11.2 Information on other hazards

Endocrine disrupting properties

Product:

according to Regulation (EC) No. 1907/2006

Carsystem 2K Hardener Air Plus

Version Revision Date: Date of last issue: 12.10.2023 3.0 DE / EN 08.11.2023 Date of first issue: 18.07.2022

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

Further information

Product:

Remarks : Persons allergic to isocyanates, and particularly those suffer-

ing from asthma or other respiratory conditions, should not

work with isocyanates.

SECTION 12: Ecological information

12.1 Toxicity

Components:

n-butyl acetate:

Toxicity to fish : (Pimephales promelas (fathead minnow)): 18 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 44 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

EC50 (Desmodesmus subspicatus (green algae)): 647,7 mg/l

Exposure time: 72 h

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC: 23 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211

2-methoxy-1-methylethyl acetate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 130 mg/l

Exposure time: 96 h Test Type: static test

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 500 mg/l

Exposure time: 48 h Test Type: static test

Method: Regulation (EC) No. 440/2008, Annex, C.2

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (green algae)): >

1.000 mg/l

Exposure time: 96 h Test Type: static test

Method: OECD Test Guideline 201

according to Regulation (EC) No. 1907/2006

Carsystem 2K Hardener Air Plus

Version **Revision Date:** Date of last issue: 12.10.2023 DE / EN 08.11.2023 Date of first issue: 18.07.2022 3.0

Toxicity to fish (Chronic tox-

icity)

NOEC: 47,5 mg/l Exposure time: 14 d

Species: Oryzias latipes (Orange-red killifish)

Method: OECD Test Guideline 204

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC: >= 100 mg/lExposure time: 21 d

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211

Hexamethylene-di-isocyanate, polymer:

Toxicity to fish LC0 (Danio rerio (zebra fish)): >= 100 mg/l

> End point: mortality Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC0 (Daphnia magna (Water flea)): >= 100 mg/l

End point: Immobilization Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

NOEC (Desmodesmus subspicatus (green algae)): 50 mg/l

End point: Growth rate Exposure time: 72 h

Method: OECD Test Guideline 201

ethyl acetate:

Toxicity to fish LC50 (Pimephales promelas (fathead minnow)): 230 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 610 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

NOEC (Desmodesmus subspicatus (green algae)): > 100 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

NOEC (Pseudomonas putida): 650 mg/l Toxicity to microorganisms

Exposure time: 16 h

Toxicity to fish (Chronic tox-

icity)

NOEC: > 9,65 mg/l Exposure time: 32 d

Species: Pimephales promelas (fathead minnow)

Method: OECD Test Guideline 210

Toxicity to daphnia and other

aquatic invertebrates (Chron-

ic toxicity)

NOEC: 2,4 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211

according to Regulation (EC) No. 1907/2006

Carsystem 2K Hardener Air Plus

Version Revision Date: Date of last issue: 12.10.2023 3.0 DE / EN 08.11.2023 Date of first issue: 18.07.2022

4-isocyanatosulphonyltoluene:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 45 mg/l

End point: mortality Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (green algae)): 30 mg/l

End point: Growth rate Exposure time: 72 h

Method: OECD Test Guideline 201

Ecotoxicology Assessment

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

m-tolylidene diisocyanate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 133 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 12,5 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Ecotoxicology Assessment

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

Components:

n-butyl acetate:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 83 % Exposure time: 28 d

2-methoxy-1-methylethyl acetate:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 90 % Exposure time: 28 d

Method: OECD Test Guideline 301F

Hexamethylene-di-isocyanate, polymer:

Biodegradability : Result: Not rapidly biodegradable

Biodegradation: 2 % Exposure time: 28 d

according to Regulation (EC) No. 1907/2006

Carsystem 2K Hardener Air Plus

Version Revision Date: Date of last issue: 12.10.2023 3.0 DE / EN 08.11.2023 Date of first issue: 18.07.2022

Method: Regulation (EC) No. 440/2008, Annex, C.4-E

ethyl acetate:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 79 %

Related to: Biochemical oxygen demand

Exposure time: 20 d

Method: OECD Test Guideline 301D

4-isocyanatosulphonyltoluene:

Biodegradability : Biodegradation: 86 %

Exposure time: 28 d

Method: OECD Test Guideline 301D

m-tolylidene diisocyanate:

Biodegradability : Result: Not readily biodegradable.

12.3 Bioaccumulative potential

Components:

n-butyl acetate:

Partition coefficient: n- : log Pow: 2,3 (25 °C)

octanol/water Method: OECD Test Guideline 117

2-methoxy-1-methylethyl acetate:

Partition coefficient: n- : log Pow: 1,2 (20 °C)

octanol/water pH: 6,8

Method: OECD Test Guideline 117

Hexamethylene-di-isocyanate, polymer:

Bioaccumulation : Bioconcentration factor (BCF): 706

Partition coefficient: n-

octanol/water

log Pow: 8,38

ethyl acetate:

Partition coefficient: n-

octanol/water

log Pow: 0,68 (25 °C)

4-isocyanatosulphonyltoluene:

Partition coefficient: n-

log Pow: 0,6

octanol/water

m-tolylidene diisocyanate:

Partition coefficient: n- : log Pow: 3,43 (22 °C)

octanol/water pH: 7

according to Regulation (EC) No. 1907/2006

Carsystem 2K Hardener Air Plus

Version Revision Date: Date of last issue: 12.10.2023 3.0 DE / EN 08.11.2023 Date of first issue: 18.07.2022

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

12.7 Other adverse effects

Product:

Additional ecological infor-

mation

: No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Do not dispose of with domestic refuse.

Do not empty into drains, dispose of this material and its con-

tainer at hazardous or special waste collection point. Dispose of in accordance with local regulations.

Dispose of wastes in an approved waste disposal facility.

Send to a licensed waste management company.

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

dling site for recycling or disposal.

Packaging that is not properly emptied must be disposed of as

the unused product.

Dispose of in accordance with local regulations.

Waste Code : The following Waste Codes are only suggestions:

08 05 01, waste isocyanates

08 01 11, waste paint and varnish containing organic solvents

or other hazardous substances

according to Regulation (EC) No. 1907/2006

Carsystem 2K Hardener Air Plus

Version Revision Date: Date of last issue: 12.10.2023 3.0 DE / EN 08.11.2023 Date of first issue: 18.07.2022

SECTION 14: Transport information

14.1 UN number or ID number

ADN : UN 1263
ADR : UN 1263
RID : UN 1263
IMDG : UN 1263
IATA : UN 1263

14.2 UN proper shipping name

ADN : PAINT RELATED MATERIAL
ADR : PAINT RELATED MATERIAL
RID : PAINT RELATED MATERIAL
IMDG : PAINT RELATED MATERIAL

IATA : Paint related material

14.3 Transport hazard class(es)

Class Subsidiary risks
ADN : 3

 ADR
 : 3

 RID
 : 3

 IMDG
 : 3

 IATA
 : 3

14.4 Packing group

ADN

Packing group : II
Classification Code : F1
Hazard Identification Number : 33
Labels : 3

ADR

Packing group : II
Classification Code : F1
Hazard Identification Number : 33
Labels : 3
Tunnel restriction code : (D/E)

RID

Packing group : II
Classification Code : F1
Hazard Identification Number : 33
Labels : 3

IMDG

according to Regulation (EC) No. 1907/2006

Carsystem 2K Hardener Air Plus

Version Revision Date: Date of last issue: 12.10.2023 3.0 DE / EN 08.11.2023 Date of first issue: 18.07.2022

Packing group : II Labels : 3

EmS Code : F-E, <u>S-E</u>

IATA (Cargo)

Packing instruction (cargo : 364

aircraft)

Packing instruction (LQ) : Y341
Packing group : II

Labels : Flammable Liquids

IATA (Passenger)

Packing instruction (passen: 353

ger aircraft)

Packing instruction (LQ) : Y341
Packing group : II

Labels : Flammable Liquids

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

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

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, mixtures and articles (Annex XVII) Conditions of restriction for the following entries should be considered: Number on list 75, 3

If you intend to use this product as tattoo ink, please contact your vendor.

REACH - Candidate List of Substances of Very High : Not applicable

according to Regulation (EC) No. 1907/2006

Carsystem 2K Hardener Air Plus

Version Revision Date: Date of last issue: 12.10.2023 3.0 DE / EN 08.11.2023 Date of first issue: 18.07.2022

Concern for Authorization (Article 59).

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

plete the ozone layer

: Not applicable

Regulation (EU) 2019/1021 on persistent organic pollu-

tants (recast)

Not applicable

REACH - List of substances subject to authorisation

(Annex XIV)

Not applicable

FLAMMABLE LIQUIDS

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

dangerous substances.

P5c

Water hazard class (Germa: ny)

WGK 1 slightly water endangering Classification according to AwSV, Annex 1 (5.2)

Other regulations:

Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

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 according to (EC) regulation 1907/2006 (REACH) has not been carried out for this product.

SECTION 16: Other information

Full text of H-Statements

H225 : Highly flammable liquid and vapor.
H226 : Flammable liquid and vapor.
H315 : Causes skin irritation.

11010 . Gauses skill littlation.

H317 : May cause an allergic skin reaction.
H319 : Causes serious eye irritation.

H330 : Fatal if inhaled. H332 : Harmful if inhaled.

H334 : May cause allergy or asthma symptoms or breathing difficul-

ties if inhaled.

H335 : May cause respiratory irritation.
H336 : May cause drowsiness or dizziness.
H351 : Suspected of causing cancer.

H412 : Harmful to aquatic life with long lasting effects.

EUH014 : Reacts violently with water.

EUH066 : Repeated exposure may cause skin dryness or cracking.

according to Regulation (EC) No. 1907/2006

Carsystem 2K Hardener Air Plus

Version Revision Date: Date of last issue: 12.10.2023 3.0 DE / EN 08.11.2023 Date of first issue: 18.07.2022

Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Chronic : Long-term (chronic) aquatic hazard

Carc. : Carcinogenicity
Eye Irrit. : Eye irritation
Flam. Liq. : Flammable liquids
Resp. Sens. : Respiratory sensitization

Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitization

STOT SE : Specific target organ toxicity - single exposure

2000/39/EC : Europe. Commission Directive 2000/39/EC establishing a first

list of indicative occupational exposure limit values

2017/164/EU : Europe. Commission Directive 2017/164/EU establishing a

fourth list of indicative occupational exposure limit values

2019/1831/EU : Europe. Commission Directive 2019/1831/EU establishing a

fifth list of indicative occupational exposure limit values

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

TRGS 430 : Germany. TRGS 430 - Isocyanates

2000/39/EC / TWA Limit Value - eight hours Short term exposure limit 2000/39/EC / STEL 2017/164/EU / STEL Short term exposure limit 2017/164/EU / TWA Limit Value - eight hours Limit Value - eight hours 2019/1831/EU / TWA 2019/1831/EU / STEL Short term exposure limit DE TRGS 900 / AGW Time Weighted Average TRGS 430 / AGW Occupational Exposure Limit

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; 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

according to Regulation (EC) No. 1907/2006

Carsystem 2K Hardener Air Plus

Version Revision Date: Date of last issue: 12.10.2023 3.0 DE / EN 08.11.2023 Date of first issue: 18.07.2022

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; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals 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

Training advice : Provide adequate information, instruction and training for op-

erators.

Classification of the mixture: Classification procedure:

Flam. Liq. 2	H225	Based on product data or assessment
Eye Irrit. 2	H319	Calculation method
Skin Sens. 1	H317	Calculation method
STOT SE 3	H336	Calculation method

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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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