otto chemie pvt ltd

An ISO 9001 : 2015 & GMP Certified Company 101, Aarkay Ruby Industrial Estate (1B), Opp Shree Narayan Industrial Estate, Chinchpada, Vasai East, Waliv, Maharashtra 401208. Tel : + 91 98200 41841 Email : info@ottokemi.com Web : www.ottokemi.com

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1. Product identifiers

Product name: Isoamyl alcohol, GR 99% Product Code: I 1547 CAS No : 123-51-3

1.2. Relevant identified uses of the substance or mixture and uses advised against Use : Industrial. For professional use only.

1.3. Details of the supplier of the safety data sheet Company identification OTTO CHEMIE PVT LTD 101, Aarkay Ruby Industrial Estate(1B), Opp Shree Narayan Industrial Estate, Chinchpada, Vasai East, Waliv, Maharashtra 401208. Email info@ottokemi.com

1.4. Emergency telephone number Phone no.: + 91 22 2207 0099 (9:00am - 6:00 pm).

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture H226: Flammable liquid and vapor. Flammable liquids, (Category 3) Acute toxicity, (Category 4) H332: Harmful if inhaled. Skin irritation, (Category 2) H315: Causes skin irritation. Serious eye damage, (Category H318: Causes serious eye damage. 1) Specific target organ toxicity -H335: May cause respiratory irritation. single exposure, (Category 3), Respiratory system 2.2 Label elements Labelling according Regulation (EC) No 1272/2008 Pictogram Signal Word Danger Hazard Statements H226 Flammable liquid and vapor. H315 Causes skin irritation. H318 Causes serious eye damage. H332 Harmful if inhaled. H335 May cause respiratory irritation. **Precautionary Statements** P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 Keep container tightly closed. Wear protective gloves/ protective clothing/ eye protection/ face P280 protection. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF INHALED: Remove person to fresh air and keep comfortable P304 + P340 + P312 for breathing. Call a POISON CENTER/ doctor if you feel unwell. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Supplemental Hazard none Statements Reduced Labeling (<= 125 ml) Pictogram Signal Word Danger Hazard Statements H318 Causes serious eye damage.

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Precautionary Statements P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. none

Supplemental Hazard Statements

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. Repeated exposure may cause skin dryness or cracking.

SECTION 3: Composition/information on ingredients

3.1 Substances Synonyms : Isoamyl alcohol Isopentyl alcohol Formula : C5H12O Molecular weight : 88,15 g/mol CAS-No. : 123-51-3 EC-No. : 204-633-5

Component	Classification	Concentration
Isoamyl alcohol		
CAS-No. 123-51-3	Flam. Liq. 3; Acute Tox. 4; Skin Irrit. 2;	<= 100 %
EC-No. 204-633-5	Eye Dam. 1; STOT SE 3; H226, H332,	
	H315, H318, H335	

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures General advice Show this material safety data sheet to the doctor in attendance. If inhaled After inhalation: fresh air. In case of skin contact In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. In case of eye contact After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses. If swallowed After swallowing: immediately make victim drink water (two glasses at most). Consult a physician. 4.2 Most important symptoms and effects, both acute and delayed The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11 4.3 Indication of any immediate medical attention and special treatment needed

4.3 Indication of any immediate medical attention and special treatment needed No data available

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SECTION 5: Firefighting measures

SECTION 5: Firefighting measure	ures		
5.1 Extinguishing media Suitable extinguishing media			
Carbon dioxide (CO2) Foam Dry	powder		
Unsuitable extinguishing media			
	nitations of extinguishing agents a	re given.	
5.2 Special hazards arising from	the substance or mixture		
Carbon oxides			
Combustible.			
Vapors are heavier than air and			
Forms explosive mixtures with a	r at elevated temperatures. Dustion gases or vapours possible	in the event of fire	
5.3 Advice for firefighters	bustion gases of vapours possible	in the event of fire.	
0	f-contained breathing apparatus.	Prevent skin contact by	
	aring suitable protective clothing.		
5.4 Further information			
Remove container from danger z	cone and cool with water. Prevent	fire extinguishing water	1
from contaminating surface wate			57
			TAN
SECTION 6: Accidental release			
	tive equipment and emergency pr		
	nnel: Do not breathe vapors, aero ation. Keep away from heat and so		
	rve emergency procedures, consu		
For personal protection see sect		it an expert.	1 M
6.2 Environmental precautions			
Do not let product enter drains. F	Risk of explosion.		
6.3 Methods and materials for co			Wal.
	pump off spills. Observe possible		
	with liquid-absorbent material (e.	g. Chemizorb®).	
Dispose of properly. Clean up af	fected area.		8.18
6.4 Reference to other sections			
For disposal see section 13.			
SECTION 7: Handling and stor	900		
7.1 Precautions for safe handling		2	
Advice on safe handling			
	substance/mixture. Avoid generat	ion of vapours/aerosols.	
Advice on protection against fire			
	ot surfaces and sources of ignition	.Take precautionary	
measures against static discharge	je.		
Hygiene measures			
	ed clothing. Apply preventive skin	protection. Wash hands	
and face after working with subs For precautions see section 2.2.	lance.		
7.2 Conditions for safe storage, i	ncluding any incompatibilities		
Storage conditions	notating any moompationalos		
	a dry and well-ventilated place. Ke	ep away from heat and	
sources of ignition.	,	1 3	
Storage class			
Storage class (TRGS 510): 3: Fla	ammable liquids		
7.3 Specific end use(s)			
Apart from the uses mentioned in	n section 1.2 no other specific use	s are stipulated	
SECTION & Exposure control	noroonal protection		
SECTION 8: Exposure controls 8.1 Control parameters	spersonal protection		
Ingredients with workplace control	ol parameters		
Derived No Effect Level (DNEL)			
(
Application Area	Routes of exposure	Health effect	Value

Application Area	Routes of exposure	Health effect	Value
Worker DNEL, longterm	inhalation	Local and systemic effects	73,16 mg/m3

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Worker DNEL, acute	inhalation	Local and systemic effects	292 mg/m3
Consumer DNEL, longterm	inhalation	Local and systemic effects	15,4 mg/m3
Consumer DNEL, acute	inhalation	Local and systemic effects	256,4 mg/m3
Consumer DNEL, longterm	oral	Systemic effects	

Predicted No Effect Concentration (PNEC)

Compartment	Value
Fresh water	0,255 mg/l
Sea water	0,0255 mg/l
Aquatic intermittent release	2,55 mg/l
Fresh water sediment	1,05 mg/kg
Sea sediment	0,105 mg/kg
Soil	0,061 mg/kg
Sewage treatment plant	37 mg/l

8.2 Exposure controls

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles

Skin protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell,

Internet: www.kcl.de). Full contact

Material: Nitrile rubber

Minimum layer thickness: 0,4 mm

Break through time: 480 min

Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M)

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: 30 min

Material tested:KCL 741 Dermatril® L Body Protection

Flame retardant antistatic protective clothing.

Respiratory protection

Recommended Filter type: Filter A (acc. to DIN 3181) for vapours of organic compounds

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer.

These measures have to be properly documented.

Control of environmental exposure

Do not let product enter drains. Risk of explosion.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties	
a) Physical state	liquid, clear
b) Color	colorless
c) Odor	No data available
d) Melting	Melting point/ range: -117 °C

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point/freezing point e) Initial boiling point and boiling range f) Flammability (solid, gas) g) Upper/lower flammability or explosive limits h) Flash point i) Autoignition temperature j) Decomposition temperature k) pH l) Viscosity

m) Water solubility n) Partition coefficient: n-octanol/water o) Vapor pressure p) Density Relative density q) Relative vapor density r) Particle characteristics s) Explosive properties t) Oxidizing properties 9.2 Other safety information Relative vapor density

SECTION 10: Stability and reactivity

10.1 Reactivity
Vapor/air-mixtures are explosive at intense warming.
10.2 Chemical stability
The product is chemically stable under standard ambient conditions (room temperature).
Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions
No data available
10.4 Conditions to avoid
Heating.
10.5 Incompatible materials
rubber
10.6 Hazardous decomposition products
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Toxicity to Animals: Oral LD50 Rat: 1500 mg/kg; Dermal LD50 Rabbit: 2000mg/kg Inhalation LC50 Rat: > 50mg/L. Chronic Effects on Humans: CARCINOGENIC EFFECTS: Classified None. by NTP, None. by OSHA, None. by NIOSH. Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of inhalation (lung irritant). Special Remarks on Toxicity to Animals: Not available. Special Remarks on Othronic Effects on Humans: Not available. Special Remarks on other Toxic Effects on Humans: Not available.

DISCLAIMER

130 °C

No data available

Upper explosion limit: 8 %(V)

Lower explosion limit: 1,2 %(V) 43,5 °C - closed cup 335 °C at 1.013 - 1.017 hPa - DIN 51794 No data available

5,6 at 25 g/l at 20 °C Viscosity, kinematic: 5,32 mm2/s at 20 °C - (ECHA) Viscosity, dynamic: 4,3 mPa.s at 20 °C soluble log Pow: 1,35 at 23 °C - OECD Test Guideline 107 -Bioaccumulation is not expected. ca.3 hPa at 20 °C - OECD Test Guideline 104 0,809 g/mL at 25 °C No data available No data available

No data available

Not classified as explosive.

none 3,04 - (Air = 1.0)

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SECTION 12: Ecological information

,		
	t LC50 - Oncorhynchus mykiss (rainbow trout) - 700 mg/l -	
96 h		
(OECD Test Guideline 2	203)	
Remarks: (IUCLID))	
Toxicity to daphnia		
and other aquatic		
invertebrates		
EC50 - Daphnia - 260 m	ng/l - 48 h	
Remarks: (IUCLID)		
Toxicity to bacteria EC5	i0 - Pseudomonas putida - 2.500 mg/l - 17 h	
Remarks: (IUCLID)		
12.2 Persistence and de	egradability	
No data available	sgradability	
Theoretical oxygen	- 3	
demand		
2.740 mg/g		
Remarks: (Lit.)		
Ratio BOD/ThBOD 55 %	6	
Remarks: (Lit.)		
12.3 Bioaccumulative p	otential	
No data available		
12.4 Mobility in soil		
No data available		
12.5 Results of PBT and	d vPvB assessment	
	contains no compo <mark>nents</mark> considered to be either persistent,	
	kic (PBT), or very persistent and very bioaccumulative (vPvB) at	
levels of 0.1% or higher		
12.6 Endocrine disruptir	ng properties	
Product:		19
	ne substance/mixture does not contain components	
cor	sidered to have endocrine disrupting properties	
acc	cording to REACH Article 57(f) or Commission	
ام	egated regulation (EU) 2017/2100 or Commission	
Dei		
	gulation (EU) 2018/605 at levels of 0.1% or higher.	
Reg	gulation (EU) 2018/605 at levels of 0.1% or higher.	
Reg 12.7 Other adverse effe		
Reg		
Req 12.7 Other adverse effe No data available	cts	
Reg 12.7 Other adverse effe No data available SECTION 13: Disposal	cts I considerations	
Reg 12.7 Other adverse effe No data available SECTION 13: Disposal 13.1 Waste treatment m	cts I considerations	
Reg 12.7 Other adverse effe No data available SECTION 13: Disposal	cts I considerations	
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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. National legislation 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 FLÄMMABLE LIQUIDS Other regulations Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable. Take note of Dir 94/33/EC on the protection of young people at work. 15.2 Chemical Safety Assessment A Chemical Safety Assessment has been carried out for this substance.

SECTION 16: Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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