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Safety Data Sheet acc. to OSHA HCS

Printing date 12/20/2022

Reviewed on 12/20/2022

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Product identifier	
<i>Trade name: <u>AR 600-56</u></i>	
Article number: AR 600-56 Application of the substance / the maintenance / the maintenance / the maintenance / the maintenance / the substance / the maintenance / the substance / the substan	ixture ics industry. For industrial and commercial use only.
Details of the supplier of the safety of Manufacturer/Supplier: Allresist GmbH Am Biotop 14 15344 Strausberg GERMANY	lata sheet
E-Mail: info@allresist.de Tel.: +49 3341 35 93 0	
Information department: Sales Emergency telephone number: Poison center of the Charité Berlin: +4930 30686700 E-Mail: giftnotruf@charite.de	
Hazard(s) identification	
Hazard(s) identification Classification of the substance or ma	ixture
	ixture
Classification of the substance or m	ixture H225 Highly flammable liquid and vapor.
Classification of the substance or ma	
Classification of the substance or ma GHS02 Flame Flammable Liquids 2	
Classification of the substance or ma GHS02 Flame Flammable Liquids 2 GHS08 Health hazard	H225 Highly flammable liquid and vapor.
Classification of the substance or ma GHS02 Flame Flammable Liquids 2 GHS08 Health hazard Carcinogenicity 2	H225 Highly flammable liquid and vapor.
Classification of the substance or ma GHS02 Flame Flammable Liquids 2 GHS08 Health hazard Carcinogenicity 2 GHS07 Eye Irritation 2A	H225 Highly flammable liquid and vapor. H351 Suspected of causing cancer.

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Frade name: AR 600-56		
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• Hazard pictogra	ams	
GHS02 GHS	507 GHS08	
• Signal word Da	inger	
· Hazard-determ	ining components of labeling:	
4-methylpentan-	-2-one	
propan-2-ol		
• Hazard stateme		
	le liquid and vapor.	
Causes serious		
Suspected of car		
2	vsiness or dizziness.	
• Precautionary s		
P201	Obtain special instructions before use.	
P202	Do not handle until all safety precautions have been read and understood.	
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.	
P240	Ground/bond container and receiving equipment.	
P241	Use explosion-proof electrical/ventilating/lighting/equipment.	
P242	Use only non-sparking tools.	
P243	Take precautionary measures against static discharge.	
P261	Avoid breathing dust/fume/gas/mist/vapors/spray	
P264	Wash thoroughly after handling.	
P271	Use only outdoors or in a well-ventilated area.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	
<i>P303</i> + <i>P361</i> + <i>P</i> .	353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.	
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
<i>P305+P351+P</i> .	338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P308+P313	IF exposed or concerned: Get medical advice/attention.	
P312	Call a poison center/doctor if you feel unwell.	
P337+P313	If eye irritation persists: Get medical advice/attention.	
P370+P378	In case of fire: Use CO2, powder or water spray to extinguish.	
P403+P233	Store in a well-ventilated place. Keep container tightly closed.	
P403+P235	Store in a well-ventilated place. Keep cool.	
P405	Store locked up.	
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.	
· Classification s	8	
· NFPA ratings (
	Iealth = 2	
	ire = 3	
	tre-5 eactivity = 0	
HMIS-ratings ((scale 0 - 4)	
	Health = 2	
	Fire = 3 $Reactivity = 0$	
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50-100%

10-25%

- Other hazards
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- vPvB: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:

67-63-0	propan-2-ol
108-10-1	4-methylpentan-2-one

4 First-aid measures

- · Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- After skin contact: Immediately rinse with water.
- After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: If symptoms persist consult doctor.
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- *Environmental precautions: Dilute with plenty of water.*
- Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.
- · Protective Action Criteria for Chemicals

1101000110	neuon chucha jor chemicais	
• PAC-1:		
67-63-0	propan-2-ol	400 ppm
108-10-1	4-methylpentan-2-one	75 ppm
	(Cont	td. on page 4)

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	(Contd. of page 3
· PAC-2:	
67-63-0 propan-2-ol	2000* ppm
108-10-1 4-methylpentan-2-one	500 ppm
• PAC-3:	
67-63-0 propan-2-ol	12000** ppm
108-10-1 4-methylpentan-2-one	3000* ppm

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

• **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols.

- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles.
- · Recommended storage temperature: 10-22°C
- · Storage class: 3
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

Control parameters Components with limit values that require monitoring at the workplace:		
67-6.	3-0 propan-2-ol	
PEL	Long-term value: 980 mg/m ³ , 400 ppm	
REL	Short-term value: 1225 mg/m³, 500 ppm Long-term value: 980 mg/m³, 400 ppm	
TLV	Short-term value: 400 ppm Long-term value: 200 ppm BEI, A4	
108-	10-1 4-methylpentan-2-one	
PEL	Long-term value: 410 mg/m ³ , 100 ppm	
REL	Short-term value: 300 mg/m³, 75 ppm Long-term value: 205 mg/m³, 50 ppm	
TLV	Short-term value: 75 ppm Long-term value: 20 ppm BEI, A3	
	(Contd. on page	

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Inar	(Contd. of page of the control of th
-	3-0 propan-2-ol
	40 mg/L
DLI	Medium: urine
	Time: end of shift at end of workweek
	Parameter: Acetone (background, nonspecific)
108	10-1 4-methylpentan-2-one
	1 mg/L
DEI	Medium: urine
	Time: end of shift
4.1.1	Parameter: MIBK
Aaa	<i>itional information:</i> The lists that were valid during the creation were used as basis.
	osure controls
	itional information about design of technical systems: No further data; see item 7.
	onal protective equipment:
	eral protective and hygienic measures:
	o away from foodstuffs, beverages and feed.
Imm	ediately remove all soiled and contaminated clothing.
Was	h hands before breaks and at the end of work.
Stor	e protective clothing separately.
Avoi	id contact with the eyes.
Avoi	id contact with the eyes and skin.
Brea	uthing equipment:
In co	ase of brief exposure or low pollution use respiratory filter device. In case of intensive or longer expos
use i	respiratory protective device that is independent of circulating air.
	ection of hands:
	glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
	to missing tests no recommendation to the glove material can be given for the product/ the preparati
	chemical mixture.
Sele	ction of the glove material on consideration of the penetration times, rates of diffusion and
	adation 5 1
0	
1 du	Protective gloves
V	
Mat	erial of gloves
	selection of the suitable gloves does not only depend on the material, but also on further marks of qua
	varies from manufacturer to manufacturer. As the product is a preparation of several substances,
	stance of the glove material can not be calculated in advance and has therefore to be checked prior to
	ication.
	etration time of glove material
	exact break through time has to be found out by the manufacturer of the protective gloves and has to
	rved.
Eye	protection:
	Tightly sealed goggles

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Information on basic physical and chemical	nyonautias
General Information	properues
Color:	Colorless
Odor:	Alcohol-like
Odor threshold:	Not determined.
Melting point/Melting range:	-89.5 °C (-129.1 °F)
Boiling point/Boiling range:	82 °C (179.6 °F)
Flammability (solid, gaseous):	Highly flammable.
Explosion limits:	ingny jummaoe.
Lower:	1.2 Vol %
Upper:	12 Vol %
Flash point:	13 °C (55.4 °F)
Ignition temperature:	425 °C (797 °F)
Decomposition temperature:	Not determined.
pH-value at 20 °C (68 °F):	6-8
Viscosity:	· ·
Kinematic:	Not determined.
Viscosity @100°C:	
Dynamic at 20 °C (68 °F):	2.45 mPas
Solubility in / Miscibility with	
<i>Water at 20 °C (68 °F):</i>	220 g/l
Partition coefficient (n-octanol/water):	Not determined.
Vapor pressure at 20 °C (68 °F):	48 hPa (36 mm Hg)
Density at 20 °C (68 °F):	0.78-0.8 g/cm ³ (6.5091-6.676 lbs/gal)
Relative density	Not determined.
Density:	Not determined.
Vapor density	Not determined.
Other information	
Appearance:	
Form:	Fluid
Important information on protection of healt environment, and on safety.	th and
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation explosive air/vapor mixtures are possible.
Solvent content:	-
Organic solvents:	100.0 %
VOC content:	100.00 %
	780-800 g/l / 6.51-6.68 lb/gal
Change in condition	
Evaporation rate	Not determined.

10 Stability and reactivity

• *Reactivity* No further relevant information available.

· Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

- **Possibility of hazardous reactions** No dangerous reactions known.
- · Conditions to avoid No further relevant information available.

• *Incompatible materials:* No further relevant information available.

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• Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

• Acute toxicity: Based on available data, the classification criteria are not met.

· LD/LC50 v	· LD/LC50 values that are relevant for classification:			
Oral	Acute Toxicity Estimate of ingredient (ATE) oral >5,000 mg/kg (Worker)			
Dermal	Acute toxicity estimates	>2,000 mg/kg (Worker)		
Inhalative	Acute toxicity Estimate inhalative (4h)	>20 mg/l (Worker)		
67-63-0 pr	67-63-0 propan-2-ol			
Oral	LD50	5,045 mg/kg (rat)		
Dermal	LD50	12,800 mg/kg (rabbit)		
Inhalative	LC50 (4h)	30 mg/l (rat)		
108-10-1 4-methylpentan-2-one				
Oral	LD50	2,080 mg/kg (rat)		
Dermal	LD50	16,000 mg/kg (rab)		
Inhalative	LC50 (4h)	8.3-16.6 mg/l (rat)		

• on the eye: Causes serious eye irritation.

Carcinogenicity Suspected of causing cancer.
 Specific target organ toxicity - single exposure May cause drowsiness or dizziness.

· Additional toxicological information:

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)			
67-63-0 propan-2-ol	3		
108-10-1 4-methylpentan-2-one	2B		
· NTP (National Toxicology Program)			
None of the ingredients is listed.			
· OSHA-Ca (Occupational Safety & Health Administration)			
None of the ingredients is listed.			

12 Ecological information

· Toxicity		
• Aquatic toxicity:		
67-63-0 propan-2-	pl	
LC50 (96h) mg/ltr.	9,640 mg/ltr (Fish)	
LC50 (48h) mg/ltr	>100 mg/ltr (Fish, minnows)	
EC50 (48h)	>100 mg/l (Daphnia magna)	
	13,299 mg/l (daphnia)	
EC50 (72h)	>100 mg/l (algae)	
108-10-1 4-methyl	pentan-2-one	
LC50 (96h) mg/ltr.	>179 mg/ltr (Zebrafisch) (OECD 203)	
LC50 (48h) mg/ltr	>100 mg/ltr (daphnia)	
EC50 (48h)	980 mg/l (algae)	
		(Contd. on page

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	>200 mg/l (c	laphnia)	
NOEC	30-35 mg/l (daphnia)	
· Persistence and a	legradability		
67-63-0 propar	e-2-ol	95 %	
108-10-1 4-meth	ylpentan-2-one	83 %	
·Bioaccumulative	potential		
108-10-1 4-meth	108-10-1 4-methylpentan-2-one 1,31		
• Mobility in soil N	o further releve	int information available.	
• Results of PBT a		ment	
• PBT: Not applied			
• vPvB: Not applic	able.		
• Other adverse efj	f ects No further	relevant information available.	
• Additional ecolog	gical informatio	on:	
· General notes:			
Water hazard cla	ss 1 (Self-assess	sment): slightly hazardous for water	
		t or large quantities of it to reach ground water, water course or sewage	

13 Disposal considerations

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

UN-Number DOT, IMDG, IATA	UN1993
UN proper shipping name DOT	Flammable liquids, n.o.s. (Isopropanol, Methyl isobut ketone)
IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (ISOPROPANC (ISOPROPYL ALCOHOL), METHYL ISOBUTYL KETONE)
Transport hazard class(es)	
DOT	
Class	3 Flammable liquids
Label	3

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· IMDG, IATA		
· Class	3 Flammable liquids	
· Label	3	
· Packing group		

	-
· Packing group · DOT, IMDG, IATA	Ш
Environmental hazards:	Not applicable.
· Special precautions for user	Warning: Flammable liquids
· Hazard identification number (Kemler co	ode): 33
EMS Number:	F-E,S-E
· Stowage Category	B
• Transport in bulk according to Annex II	of
MARPOL 73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 5 L
	On cargo aircraft only: 60 L
· IMDG	
Limited quantities (LQ)	1L
Excepted quantities (\widetilde{EQ})	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (ISOPROPANO (ISOPROPYL ALCOHOL), METHYL ISOBUTYL KETONE 3, II
	•,

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture: (Substances not listed)	
None of the ingredients is listed.	
· Sara	1

• Section 355 (extremely hazardous substances):

None of the ingredients is listed.

• Section 313 (Specific toxic chemical listings):

All ingredients are listed.

• TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

· Hazardous Air Pollutants

108-10-1 4-methylpentan-2-one

· Proposition 65

• Chemicals known to cause cancer:

108-10-1 4-methylpentan-2-one

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· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

• Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

108-10-1 4-methylpentan-2-one

· Carcinogenic categories

· EPA (Environmental Protection Agency)

108-10-1 4-methylpentan-2-one

• TLV (Threshold Limit Value)

67-63-0 propan-2-ol

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

• Hazard pictograms



· Signal word Danger

· Hazard-determining components of labeling: 4-methylpentan-2-one propan-2-ol · Hazard statements Highly flammable liquid and vapor. Causes serious eye irritation. Suspected of causing cancer. May cause drowsiness or dizziness. · Precautionary statements P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ground/bond container and receiving equipment. P240 P241 Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. P242 P243 Take precautionary measures against static discharge. P261 Avoid breathing dust/fume/gas/mist/vapors/spray P264 Wash thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. P280 P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. *P304+P340* IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 If in eves: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 IF exposed or concerned: Get medical advice/attention. P312 Call a poison center/doctor if you feel unwell. P337+P313 If eye irritation persists: Get medical advice/attention. P370+P378 In case of fire: Use CO2, powder or water spray to extinguish. (Contd. on page 11)

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P403+P233	Store in a well-ventilated place. Keep container tightly closed.	
P403+P235	Store in a well-ventilated place. Keep cool.	
P405	Store locked up.	
P501	Dispose of contents/container in accordance with local/regional/national/international	
	regulations.	
· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.		

16 Other information

· Disclaimer

This safety data sheet contains only safety relevant information. The information is based on the state of our knowledge at the time of revision, however, it does not constitute a guarantee of product properties, product information or product specifications and does not establish a contractual legal relationship. This document is only valid in its unchanged form. In the event of changes by third parties, the exhibitor accepts no responsibility for form and content or for any damages or claims arising from such changes. The information is not transferable to other products. If the product named in this safety data sheet is mixed, blended or processed with other materials or is subjected to processing, the information in this safety data sheet cannot be transferred to the new material produced in this way, unless expressly stated otherwise. The data sheet does not release the user from the obligation to ensure that he acts in accordance with all regulations in connection with his activity.

· Department issuing SDS: Quality Management department

• Contact: SDS authorized Person

• Date of preparation / last revision 12/20/2022

• Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit BEI: Biological Exposure Limit Flammable Liquids 2: Flammable liquids – Category 2 Eye Irritation 2A: Serious eye damage/eye irritation - Category 2A Carcinogenicity 2: Carcinogenicity – Category 2 Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) - Category 3 • * Data compared to the previous version altered.