



Certificate issued on: 12/02/2019
Specification Issue 3 dated: 16/12/2013

CERTIFICATE OF ANALYSIS

Batch: 4377405

ALDEHYDE C10

Best Before End: November 2021

TEST	REQUIREMENT	RESULT
Appearance	: Colourless to very pale yellow.	: Conforms
Odour	: Citrus-like, floral.	: Conforms
Refractive index @ 20°C	: 1.4260 to 1.4300	: 1.4274
Optical rotation @ 20°C	: -1° to +1°	: +0°
Specific gravity @ 20°C	: 0.8240 to 0.8350	: 0.8281
Purity	: >98%	: Conforms

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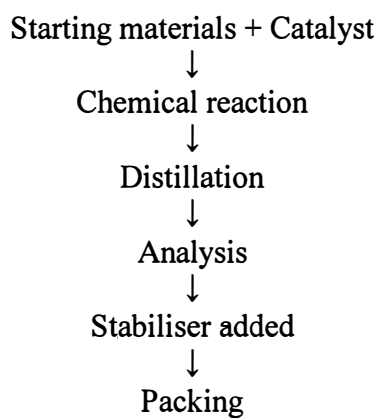


30th January 2019

Please find below a Production flow chart for the following material:-

Product

Aldehyde C10



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1. Identification of the substance/mixture and of the company

Product Name : ALDEHYDE C10
Use of substance/mixture :
Company : MADAR Corporation Ltd
19-20 Sandleheath Industrial Estate
Fordingbridge
Hampshire
SP6 1PA

email address : sales@madarcorporation.co.uk
telephone : +44 1425 655555
emergency telephone : +44 1425 655555

2. Hazard identification

GHS Classification

Skin irritation 2
Aquatic chronic 1

GHS Labelling

Symbol :



Signal word : Warning
hazard statements : H315 Causes skin irritation
H410 Very toxic to aquatic life with long lasting effects
precaution statements : P264 Wash thoroughly after handling
P280 Wear protective gloves/protective clothing/eye protection/face protection
P273 Avoid release to the environment
P302+352 IF ON SKIN: Wash with soap and water
P332+313 If skin irritation occurs: Get medical advice/attention
P362 Take off contaminated clothing and wash before reuse
P501 Dispose of contents/container in accordance with local regulations

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Classified as: IRRITANT
Symbol: Xi !

R-phrases:
R38: Irritating to the skin
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S-phrases:
S36/37/39: Wear suitable protective clothing, gloves and eye/face protection
S61: Avoid release to the environment. Refer to special instructions/Safety data sheet

3. Composition/information on ingredients

IUPAC name	:	Decanal
Characterisation	:	Acyclic aldehydes
Molecular formula	:	C10 H20 O
Molecular weight	:	156.27
CAS no	:	112-31-2
EINECS no	:	203-957-4
FEMA	:	2362

Substances within the mixture

This product contains:		EINECS	CAS
> 98% Decanal Ski2,ACh1	R 38,50/53: H 315,410	203-957-4	112-31-2

For full text of R and H phrases see section 16

4. First aid measures

Inhalation	:	In case of excessive inhalation remove the person to fresh air and keep at rest in a comfortable position. Obtain medical advice immediately.
Skin contact	:	Remove contaminated clothing (N.B. wash before re-use). Wash off skin immediately with plenty of water, using soap if available. If any sign of tissue damage or persistent irritation is apparent obtain medical advice immediately
Eye contact	:	Rinse the eyes immediately with plenty of water for at least ten minutes. If any sign of tissue damage or persistent irritation is apparent, obtain medical advice immediately.
Ingestion	:	Rinse mouth with water. Obtain medical advice immediately.

5. Fire-fighting measures

Extinguishing media	:	Carbon dioxide, foam, dry chemical Do not use a direct water jet.
Special hazards	:	CO/CO2, Smoke
Advice for firefighters	:	Avoid inhalation of smoke and fumes. In case of insufficient ventilation wear suitable respiratory equipment.

6. Accidental release measures

Personal precautions	:	Gloves and eye protection should be worn when handling spillages. Avoid skin/eye contact and inhalation of vapour. Good personal washing routines should be followed after accidental release. Ensure adequate ventilation in working areas following accidental release.
Environmental precautions:	:	Do not allow discharge into drains, soil or any aquatic environment.
Methods for cleaning up	:	Absorb spillages on porous inert material such as earth, sand or vermiculite and dispose of in accordance with local regulations. Large spillages should be contained by the use of sand or another inert material, transferred to a suitable container and recovered or disposed of in accordance with local regulations.

See also sections 8 and 13

7. Handling and storage

- Precautions for safe handling: Handle in accordance with good occupational hygiene and safety practices in a well ventilated area.
Avoid direct contact with skin and eyes. Depending on working conditions, this may include wearing of eye protection and protective clothing such as PVC gloves and suitable overalls.
Wash hands after use
Remove protective equipment and contaminated clothing before entering eating areas
Avoid breathing vapours especially if the material is hot.
- Conditions for safe storage: Store in full, dry, airtight containers away from sources of heat and light. Do not re-use the empty container.
- Uses and applications : Fragrances and flavours

8. Exposure controls/personal protection

- Exposure parameters : Occupational exposure limits
- | | |
|---------------------|----------------|
| Long term exposure | 20 ppm 8 hours |
| Short term exposure | 20 ppm 15 min |
- Respiratory Protection : Where ventilation may be inadequate, wear self-contained breathing apparatus.
- Hand protection : Wear impervious gloves.
- Skin protection : Wear protective clothing.
- Eye protection : Wear eye protection e.g. Safety glasses/goggles
- Engineering measures : None found

9. Physical and chemical properties

Appearance	Colorless to pale yellow liquid
Odour	Strong, fatty
Odour threshold	High
pH	Data not available
Melting point	Data not available
Initial boiling point	207°C @ 760mm/Hg
Boiling Range	207 to 209°C @760mm/hg
Flash point	86 °C
Evaporation rate	Data not available
Flammability	Data not available
Upper flammable limit	5.4% (calc.)
Lower flammable limit	0.8% (calc.)
Upper explosive limit	Data not available
Lower explosive limit	Data not available
Vapour pressure	0.103 mm/Hg @ 25°C
Vapour Density	Data not available
Relative Density	0.830 @ 20°C
Solubility	Data not available
Partition coefficient n-octanol/water	4.09
Autoignition temperature	Data not available
Decomposition temperature	Data not available
Viscosity	1.7 mPas @ 20°C
Explosive properties	Data not available
Oxidising properties	Data not available

10. Stability and reactivity

Stability:	Stable at ambient temperatures
Incompatible Materials:	Avoid oxidising agents
Conditions to avoid:	None known
Hazardous Decomposition Products:	No data available

11. Toxicological information

Acute toxicity	LD50 Oral Rat 3730 ul/kg LD50 Dermal Rabbit 5040 µl/kg
Skin corrosion/irritation	Data not available
Respiratory or skin sensitization	Data not available
Serious eye damage/irritation	Data not available
Germ cell mutagenicity	Data not available
Carcinogenicity	Data not available
Reproductive toxicity	Data not available
STOT single exposure	Data not available
STOT repeat exposure	Data not available
Aspiration hazard	Data not available

12. Ecological information

Toxicity data	Data not available
Persistence and degradability data	Data not available
Bioaccumulative potential	Data not available

13. Disposal considerations

Dispose in accordance with local regulations. Avoid release into drainage systems and into the environment.

14. Transport information

UN No	: 3082
Shipping Name	: Environmentally hazardous substance, liquid, n.o.s.
Class	: 9
Packing Group	: III

15. Regulatory information

This datasheet has been compiled in accordance with 'COMMISSION REGULATION (EU) No 453/2010, Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)'

16. Other information

Changes since the last update

Section 9	Revised physical/chemical properties
Section 11	Revised toxicological data

Section 3 R and H phrases in full

R 38	Irritating to the skin
R 50/53	Very toxic to aquatic organisms; may cause long term adverse effects in the aquatic environment

H 315	Causes skin irritation
H 410	Very toxic to aquatic life with long lasting effects

Ski2	Skin irritation 2
ACh1	Aquatic chronic 1

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Issue: 6 Date of issue: 12/09/2013

SPECIFICATION

ALDEHYDE C10	Iss date: 16/12/2013 Issue : 3
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Product Statement

30th January 2019

Aldehyde C10

We hereby confirm that the above material is suitable for vegetarian and vegan use.

We hereby confirm that the above material's country of origin is the UK.

We hereby confirm that the above material does not have any specific restrictions according to the 48th amendment to the IFRA code of practice.

This information is correct to the best of our knowledge and belief. It is for the customer to decide if the material is suitable for their intended use, MADAR Corporation Ltd cannot accept liability for loss, injury or damage which may result from the use of this material or the information above.

Technical Data Sheet

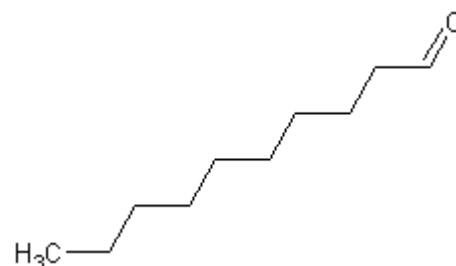
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ALDEHYDE C10

Issue: 4

IUPAC name: Decanal

CAS number: 112-31-2
EU number: 203-957-4
FEMA number: 2362
Molecular formula: C₁₀ H₂₀ O
Molecular mass: 156.27
Annex VI ref:
Reach registration: 01-2119967771-26-xxxx
INCI name: Decanal



Flash point: 87°C
Melting point: 17 to 18°C @ 760 mm/Hg
Boiling point: 207 to 209°C @ 760 mm/Hg
Heavy metals: Material tested for heavy metals according to Quality Schedule. Not all batches tested. Quality schedule selects a representative number of batches for testing.
Pesticides: Not tested
Natural status: This material is not natural according to EU Directive 1334/2008
Kosher status: Kosher batches of this material are available.
Halal status: This material is suitable for Halal use but not certified as such.
Food grade status: This material is food grade according with Article 14 of EU Directive 178/2002
GMO status: Contains no modified material according to 1829/2003/EC and 1830/2003/EC
Storage: Store in full, dry, airtight containers below -20°C, away from sources of heat and light
Food allergens: This material is free from recognised food allergens as defined by EU regulation 1169/2011
TSE statement: This material is of entirely synthetic origin and therefore does not contain any animal derived material, neither has it been in contact with any animal derived material
Additives: This material contain 0.1% tocopherol

Fragrance sensitisers (typical values):

None found:	X
Amyl cinnamal:	
Benzyl alcohol:	
Cinnamyl alcohol:	
Citral:	
Eugenol:	
Hydroxycitronellal:	
Isoeugenol:	
Amylcinnamyl alcohol:	
Benzyl salicylate:	
Cinnamal:	
Coumarin:	
Geraniol:	
Anise alcohol:	
Benzyl cinnamate:	
Lylal:	
Farnesol:	
Lilial:	
Linalool:	
Benzyl benzoate:	
Hexyl cinnamal:	
Citronellol:	
Limonene:	
Methyl 2-octynoate:	
Alpha-isomethyl ionone:	
Oakmoss extract:	
Treemoss extract:	

With reference to point 4 of Article 14 EU 178/2002, this material should not be consumed independently, only as part of a larger flavouring compound. It is for the user to decide the suitability and concentration of this material appropriate for its specific use.

With reference to point 5 of Article 14 EU 178/2002, this material has been sieved to <1.5 mm to eliminate extraneous matter, and will not putrefy, deteriorate or decay to an unsafe level during the entirety of its shelf life.

Iss: 4 Printed: 10 Sep 2018