

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 SDS Reference Number: 2387H $\square \ \square \ \square \ : 4/9/2014 \ \square \ \square \ \square \ : 1/23/2025 \ \square \ \square \ : 5/13/2016 \ \square \ : 1.0$

00 1: 00000 000 00 00

1.1.

□□□ : BUTYRALDEHYDE EXTRA PURE

H₃C

□□□ : n-Butyraldehyde, Butanal

1.2.

: Laboratory chemicals, Manufacture of substances

1.3.

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1.4.

□□ **2:** □□□·□□□

2.1.

Regulation (EC) No.1272/2008 [CLP] \square \square \square \square

□□(H) □□ □ EUH □□ □□: 16□ □□.

2.2. 0000000 000 0000 00

□□ (EC) No. 1272/2008□ □□ □□ □□ [CLP]

□□ □□ □□□□(CLP)



H225

GHS02

 $\square\square\square (CLP) \hspace{1cm} : \hspace{1cm} \square\square$

□□·□□ □□ (CLP) : H225 - □□□ □□ □□.

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

2.3. □ □ □ □

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

aa **3:** aaaaa aa a aaa

3.1.

00	0000	%
	CAS :: 123-72-8 EC :: 204-646-6 EC :: :: 605-006-00-2	100

004: 00000

4.1.

□□□□□□ : If you feel unwell, seek medical advice.

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: 00 0000. Do not induce vomiting. 0000 000 0000 0000.

4.2.

None under normal conditions.

4.3.

Treat symptomatically.

5.1.

: Carbon dioxide. Dry powder. Foam. Water spray.

: Do not use a heavy water stream.

□□□□ : May form flammable/explosive vapour-air mixture.

: Toxic fumes may be released.

5.3.

: Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.

: Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. □□□□□□□. Complete protective

clothing.

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00 **6:** 00000 0000

6.1.

: Wear recommended personal protective equipment.

00 0000

: Do not attempt to take action without suitable protective equipment.

: Ventilate area. Evacuate unnecessary personnel.

6.2.

0000 0000 000.

6.3.

□□ : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent

migration and entry into sewers or streams. Stop leak without risks if possible.

□ □ □ □ : Take up liquid spill into absorbent material. □ □ □ □ □ □ □ On land, sweep or shovel into suitable

containers.

Dispose of materials or solid residues at an authorized site.

6.4.

For further information refer to section 13.

00**7:** 00 0 0000

7.1.

: Handle empty containers with care because residual vapours are flammable.

soap and water before eating, drinking or smoking and when leaving work. Always wash hands after handling the product.

: Proper grounding procedures to avoid static electricity should be followed.

: Heat sources. : 2 – 8 °C

□□□ : Store always product in container of same material as original container.

7.3.

__ **8:** _____

8.1.

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8.2. \Box \Box \Box

000 000 00:

Ensure good ventilation of the work station.

□□ □□□**:**

Wear recommended personal protective equipment.







□ □□:

Chemical goggles or safety glasses

Skin protection

OO OO:

Wear a mask

Protective gloves

____**:**

Wear appropriate mask

_____**:**

--- **9:** -----

9.1.

: Colourless.
: Clear liquid.
: 72.11 g/mol
: Pungent.
: -96.8 °C
: 74.8 °C
: Flammable

| 1.9 vol % | 1.2.5 vol % | 1.

: \Box : 7.6 g/100ml at 20 °C - Miscible with water

□□: Miscible with ethanol
□□: Miscible with ether
□□: Miscible with Acetone

Partition coefficient n-octanol/water (Log Kow) : □□□□

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Partition coefficient n-octanol/water (Log Pow) : 0.79

 \Box \Box : 144 hPa at 20 °C

□ □ : 0.802 g/cm³ at 20 °C

9.2.

□□□□ : 251 °C

□□□ : 1.3843 at 20 °C

__ 10: ___ _ _ _ _

10.1.

10.2.

Stable under normal conditions.

10.3.

No dangerous reactions known under normal conditions of use.

10.4.

10.5.

10.6.

May release flammable gases.

00 11: 000 00 00

11.1. □□ (EC) No 1272/2008□ □□□, □□□ □□□ □□□

pH: 6 - 7 at 20 °C

: 00000

pH: 6-7 at 20 °C

BUTYRALDEHYDE EXTRA PURE (123-72-8)

0.561 mm²/s

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

11.2.

00 12: 000 000 00

12.1. □ □

the environment.

12.2.

BUTYRALDEHYDE EXTRA PURE (123-72-8)

12.3.

12.4.

12.5. PBT □ **vPvB** □ □ □

12.6.

12.7.

00 13: 000 0000

13.1.

 $\begin{tabular}{lll} $\square \square \square \square \square \square \square \end{tabular} \begin{tabular}{lll} $\square \square \square \square \square \square \square \square \square \end{tabular}$: Disposal must be done according to official regulations.

□□□□□ : Dispose of contents/container in accordance with licensed collector's sorting instructions.

□ □ □ □ □ □ : Disposal must be done according to official regulations.

Disposal must be done according to official regulations.

: Handle empty containers with care because residual vapours are flammable.

□ □ □. Do not re-use empty containers.

__ **14:** ___ __ __

ADR / IMDG / IATA / ADN / RID \square \square

14.1. UN □□ □□ **ID** □□

UN-□(ADR) : UN 1129 UN-□(IMDG) : UN 1129 UN-□(IATA) : UN 1129 UN-□(ADN) : UN 1129 UN-□(RID) : UN 1129

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

14.2. UN □□ □□□

: 0000000 000 (RID) : 0000000

: UN 1129 ..., 3, II, (D/E)

14.3.

ADR

□□□□□□□□(ADR) : 3 □□□□(ADR) : 3



IMDG

: 3

□□ □□ (IMDG) : 3



IATA

(IATA) : 3

ADN

□□□□□□□□□(ADN) : 3 □□□□(ADN) : 3



RID

: 3

□□□□(RID) : 3



14.4.

□□□□(ADR) : II □□□□(IMDG) : II □□□□(IATA) : II

BUTYRALDEHYDE EXTRA PURE according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 \square : II \square \square \square (RID) : II 14.5. : 000 : 000 EmS-No. $(\Box\Box)$: F-E EmS-No. $(\Box\Box)$: S-D 14.6. \square : F1 $\square \square \square (ADR)$: 11 $\square \square \square (ADR)$: E2 : P001, IBC02, R001 \square $\square \square (ADR)$: MP19 : T4 □□□ □□ □ □□ □□ □□ (ADR) : TP1 □□□ □□ □□ □□ □□ □□ (ADR) $\Box\Box\Box\Box(ADR)$: LGBF : FL \square \square \square \square (ADR) : 2 □□ □□ □□ □□ - □□(ADR) : S2, S20 □ □ □ □ □ □ (Kemler □ □) : 33 : 33 1129 □□ □□ □□ (ADR) : D/E $EAC \; \Box \, \Box$: •3YE \square \square \square (IMDG) : 1 L : E2 \square \square (IMDG) : P001 \Box \Box \Box (IMDG) : IBC02 IBC $\square \square \square \square (IMDG)$ \square \square \square (IMDG) : T4 \square \square \square \square \square (IMDG) : TP1 \square \square \square (IMDG) : B $\square \square \square$ (IMDG) : -7°C c.c. □□□ □□□ (IMDG) : Colourless liquid with a characteristic pungent odour. Flashpoint: -7°C c.c. Explosive limits: 1.4% to 12.5%. Immiscible with water. MFAG- \square : 129 $PCA \square \square \square \square (IATA)$: E2 : Y341 $PCA \square \square \square \square (IATA)$ PCA 🗆 🗎 🗎 🗎 🖂 (IATA) : 1L $PCA \square \square \square \square (IATA)$: 353 PCA □□ □□□(IATA) : 5L CAO □□□□(IATA) : 364 CAO 🗆 🗆 🗆 🗆 (IATA) : 60L ERG $\Box\Box$ (IATA) : 3L \square \square \square \square (ADN) : F1 $\square \square \square (ADN)$: 1 L $\square \square \square (ADN)$: E2 : T

: PP, EX, A

: VE01

: 1

 $\square\,\square(ADN)$

 $\square \square (ADN)$

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□□□(RID) : P001, IBC02, R001

14.7. **000000(IMO)**

00 15: 00 0000

15.1. 00, 00 0 000 0000 0000 00 000 00 00 00/00

EU □□

REACH \square \square XVII (\square \square \square)

EU restriction □□ (REACH Annex XVII)	
00 00	
3(a)	BUTYRALDEHYDE EXTRA PURE
40.	BUTYRALDEHYDE EXTRA PURE

REACH \square \square XIV (\square \square \square) \square \square \square

REACH □□ □□ □□ (SVHC)

REACH

PIC □□ (□□□□□□)

PIC □□□ □□ □ □(□□ EU 649/2012)

POP □□□ □□ □ □(□□ EU 2019/1021)

Ozone Regulation (2024/590)

Not listed on the Ozone Depletion list (Regulation EU 2024/590)

□□□□□□(428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

□□ □□□ □□ (2019/1148)

000 000 00(00 00000 00 00 00 00 EU 2019/1148)0 000 00 0

□□□□□□□□(273/2004)

00 00

VOC ordinance (ChemVOCFarbV) :

WGK : WGK 3, □□□□□□ (Classification according to AwSV).

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15.2.

No chemical safety assessment has been carried out

□□ **16:** □ □□ □□□□

00 0 0000:		
ACGIH	American Conference of Governement Industrial Hygienists	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
BLV		
BOD	Biochemical oxygen demand (BOD)	
CAS 🗆 🗆	0000 00 00 (CAS)	
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008	
COD		
CSA		
DMEL	Derived Minimal Effect level	
DNEL		
ЕС 🗆 🗆		
EC50	Median effective concentration	
ED		
EN		
EWC	European waste catalogue	
IARC	International Agency for Research on Cancer	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
Log Kow	Partition coefficient n-octanol/water (Log Kow)	
Log Pow	Partition coefficient n-octanol/water (Log Pow)	
MAK	maximum workplace concentration	
NOAEC	No-Observed Adverse Effect Concentration	

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
N.O.S.	Not Otherwise Specified
OECD	Organisation for Economic Co-operation and Development
OEL	
OSHA	Occupational Safety & Health Administration
PBT	Persistent Bioaccumulative Toxic
PNEC	
PPE	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	
STP	Sewage treatment plant
TF	
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
TWA	Time Weighted Average
COV	Volatile Organic Compounds
vPvB	Very Persistent and Very Bioaccumulative
UFI	00 00 000

□H□ □ EUH□ □□:	
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H225	

□□□□□□□(SDS), EU