

# Product Regulatory Information Document

## BUTANOX M-50

Version 2.0

Revision Date 07.04.2021

Print Date 07.04.2021

REG\_WORLD / EN

Trade name : BUTANOX M-50  
 Pure substance/mixture : Mixture  
 Use of the Substance/Mixture : Specific use(s): Curing agent

Company : Nouryon, Technology Solutions, Polymer Catalysts

### General statement

The Company hereby certifies that the product can be lawfully used for the use(s) identified in this declaration within the limits set-up in the disclaimer that can be found at the end of the document. It is therefore advised to read the disclaimer carefully.

The present declaration must be read in conjunction with the Safety Data Sheet of the product which is the primary source of documentation, providing basic information about the properties, hazards, how to use the product safely and what to do in case of emergency.

### Special substances of concern

Substance / Component	Concentration	Remarks
Sb: antimony		Not intentionally added., Not expected.
As: Arsenic		Not intentionally added., Not expected.
Ba: Barium		Not intentionally added., Not expected.
Be: Beryllium		Not intentionally added., Not expected.
Cd: cadmium		Not intentionally added., Not expected.
Cr: chromium		Not intentionally added., Not expected.
Co: Cobalt		Not intentionally added., Not expected.
Cu: Copper		Not intentionally added., Not expected.
Pb: Lead		Not intentionally added., Not expected.
Mn: Manganese		Not intentionally added., Not expected.
Hg: Mercury		Not intentionally added., Not expected.
Mo: Molybdenum		Not intentionally added., Not expected.
Ni: Nickel		Not intentionally added., Not expected.
Se: selenium		Not intentionally added., Not expected.
Ag: Silver		Not intentionally added., Not expected.
Te: Tellurium		Not intentionally added., Not expected.
Tl: Thallium		Not intentionally added., Not expected.
Sn: Tin		Not intentionally added., Not expected.
V: Vanadium		Not intentionally added., Not expected.

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Zn: Zinc		Not intentionally added., Not expected.
Adsorbed organic bound halogens (AOX)		Not intentionally added., Not expected.
Alkylphenol and alkylphenol ethoxylates		Not intentionally added., Not expected.
Amines, aromatic		Not intentionally added., Not expected.
Bisphenol		Not intentionally added., Not expected.
Butylated hydroxytoluene (BHT)		Not intentionally added., Not expected.
Dioxane		Not intentionally added., Not expected.
Dioxins		Not intentionally added., Not expected.
Dye and pigments		Not intentionally added., Not expected.
EDTA and salts thereof		May contain detectable quantities.
Formaldehyde releasing substances		Not intentionally added., Not expected.
Free Ethylene oxide		Not intentionally added., Not expected.
Free Propylene oxide		Not intentionally added., Not expected.
Genetically modified organisms (GMO)		Not intentionally added., Not expected.
Isothiazoline(s)		Not intentionally added., Not expected.
Neutralising agent		Not intentionally added., Not expected.
Nonylphenol		Not intentionally added., Not expected.
Nonylphenol Ethoxylate		Not intentionally added., Not expected.
Pesticides.		Not intentionally added., Not expected.
Phenol		Not intentionally added., Not expected.
Phthalates	60 - 80 %	
Polybrominated biphenyl (PBB)		Not intentionally added., Not expected.
Polybrominated biphenyl ether (PBDE)		Not intentionally added., Not expected.
Polychlorinated biphenyl or Polychlorinated triphenyls (PCB or PCT)		Not intentionally added., Not expected.
Perfluorinated chemicals (PFCS)		Not intentionally added., Not expected.
Polycyclic aromatic hydrocarbons (PAHs)		Not intentionally added., Not expected.
Residual solvents		May contain detectable quantities.
Volatile organic compounds (VOC)	1 - 3 %	
Organic tin		Not intentionally added., Not expected.
Other halogenated compounds		Not intentionally added., Not expected.
Biocide		Not intentionally added., Not expected.
Brominated flame retardant		Not intentionally added., Not expected.
Materials derived from animal origin		Not intentionally added., Not expected.
Materials derived from plant origin		Not intentionally added., Not expected.
Aluminum		Not intentionally added., Not expected.
Active Oxygen Content	8,8 - 9,0 %	
Organic peroxides	30 - 37 %	
Asbestos		Not intentionally added., Not expected.

## Carcinogenicity (advisory bodies)

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- IARC : No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- OSHA : No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
- NTP : No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

## Regulatory information

EU	OSPAR List of Substances of Possible Concern	Compliant
EU	EU Directive 94/62/EC and its amending Directive 2004/12/EC on packaging and packaging waste	Compliant.
EU	Directive 1999/13/EC on the limitation of emissions of volatile organic compounds	Banned and/or restricted
EU	EU Directive 2011/65/EU RoHS2 Restriction of Hazardous Substances in Electrical and Electronic Equipment	Compliant.
EU	EU Directive 2009/48/EC on the safety of toys	Compliant.
EU	EU SVHC - REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	Not applicable
EU	EU REACH - Annex XIV - REACH - List of substances subject to authorisation (Annex XIV)	Not applicable
EU	EC 1005/2009 - Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	Not applicable
EU	EU POP - Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	Not applicable
EU	EU Regulation (EC) No 1223/2009 on cosmetic products	Not applicable
EU	EU - Council Regulation (EC) No 1334/2000 on control of exports of dual-use items and technology	Not applicable
EU	EU Regulation (EC) No 273/2004 on drug precursors	Not applicable
EU	Directive 2012/19/EC (WEEE)	Not applicable
EU	EU - Cosmetic Directive 76/768/EC	Not applicable
EU	REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)	Number: 3 Further information: See Annex XVII to Regulation (EC) no 1907/2006 for Conditions of restriction
EU	EU PIC - Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals	Not applicable
US	US CONEG: Coalition of Northeastern Governors	Compliant.
REG_WORLD	Switzerland. VOC Ordinance, Annex II (Products)	listed on the Swiss VOC Annex II
US	US MA RTK - Massachusetts Right to Know List of Chemicals and Hazard Classifications	Listed
US	US NJ RTK - New Jersey Right to Know Hazardous Substance List (RTK-HSL)	Listed
REG_WORLD	Global Automotive Declarable Substance List (GADSL)	Compliant.
US	US PA RTK - Pennsylvania: Hazardous substance list	Listed

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US	Minnesota Hazardous Substance	Listed
US	DEA - US. Drug Enforcement Administration (DEA) Listed Precursor and Essential Chemicals (21 CFR 1310)	Not applicable
US	Rhode Island Hazardous Substances	Listed
REG_WO RLD	CWC - International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors	Not applicable
BR	BR DPF - Brazil. List of chemicals controlled by the Federal Police	Not applicable
PH	Priority Chemical List (PCL)	Not applicable
PH	Chemical Control Order (CCO)	Not applicable
CN	Chinese RoHS Regulations	Not applicable
SG	Environmental Protection and Management Act and Environmental Protection and Management (Hazardous Substances) Regulations	Banned and/or restricted
JP	Japanese RoHS Regulations	Not applicable
ID	ID HAZHEA - Indonesia. Regulation of the Ministry of Health No. 472 of 1996 on the safeguarding of substances hazardous to health.	Not applicable
REG_WO RLD	Safety of Toys, Norm EN 71-3, 2013	Not applicable
ID	Prohibited substances	Not applicable
ID	Restricted substances	Not applicable
REG_WO RLD	Classified as dual use (ECN/ECCN 1C350)	Not applicable
ID	Hazardous substances approved for use	Banned and/or restricted
ID	Type of Hazardous Materials Restricted to Import, Distribution and Supervision	Listed
TH	TH HAZSUB - Hazardous Substance Act	Banned and/or restricted
TH	Emergency Decree on Controlling the Use of Volatile Substances	Not applicable
AU	Prohibition/Licensing Requirements	There is no applicable prohibition, authorisation and restricted use requirements, including for carcinogens referred to in Schedule 10 of the model WHS Act and Regulations.
CL	CL DRUG - Decree 1358 - Establishment of rules governing the control measures of precursors and essential chemicals.	Not applicable
AR	AR DRUG - Control of precursors and essential chemicals for the preparation of drugs.	Not applicable
EC	EC DRUG - Organic Law on Integral Prevention of Social and Economic Phenomenon of Drugs and of Regulation and Use Control of Listed Substances subject to Monitoring	Banned and/or restricted
VE	VE DRUG - Drug Law - Controlled Chemicals	Banned and/or restricted
PE	PE DRUG - Control Act of precursor chemicals and controlled products.	Not applicable
PA	PA DRUG - List of Precursors and Controlled Chemicals.	Banned and/or restricted
MX	MX DRUG - Federal Law for the control of chemical	Banned and/or restricted

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	precursors, essential chemical products and machinery for producing capsules, tablets and pills.	
UY	UY DRUG - Decree 391-2002 Regulation for Precursors and Chemicals.	Banned and/or restricted
CR	CR DRUG - Law on Narcotics, Psychotropic Substances, Drugs of Unauthorized Use, Money-Laundering and Related Activities.	Banned and/or restricted
CO	CO DRUG - Regulations controlling the importation, manufacture, sale, distribution, transport and use of substances that may be used for the processing of addictive drugs.	Banned and/or restricted
SV	SV DRUGP - List of Medicines and Controlled Substances - Precursors and Chemical Substances Frequently Used for Illicit Production of Narcotics and Psychotropic Substances Subject to Control.	Banned and/or restricted
TR	Regulation on Persistent Organic Pollutants (Number 30595)	Not applicable
CN	China Severely Restricted Toxic Chemicals for Import and Export	Not applicable
CN	CN HAZCHEM - Catalogue of Hazardous Chemicals	Listed Yan Zhang: While for some specific compositions are defined with consistency range in the Catalogue, like MEKP in this example, the mixture containing such a composition with designated consistency is defined as hazard chemical product. This is a priority principle prior to that 70% principle.
SG	SG PetrFlamMat - Fire Safety (Petroleum and Flammable Materials) Regulations	Listed
CN	Hazardous Chemicals for Priority Management under SAWS	Not applicable
SG	SG PetrFlamMat - Fire Safety (Petroleum and Flammable Materials) Regulations	Not applicable
CH	CH PIC - PIC Ordinance, ChemPICO (814.82)	Not applicable
TR	KKDIK (30105 (Bis)) - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex 17)	Number: 3 Further information: See Annex 17 to KKDIK Regulation No.30105 (Bis) (23.06.2017) for Conditions of restriction
RS	Rule book on Bans and Restrictions of Production, Placing on the Market and Use of Chemicals (State Gazette, Nr. 90/2013, 25/2015, 2/2016, 44/2017, 36/2018, 9/2020)(Annex 1)	Number: 3 Further information: See the Rule book on Bans and Restrictions of Production, Placing on the Market and Use of Chemicals (State Gazette, Nr. 90/2013, 25/2015, 2/2016,44/2017, 36/2018)(Annex 1) for

		Conditions of restriction
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### Regulatory Registrations and Certifications

Product registration Norway : 35291  
(LOV-1976-06-11-79)  
Product registration Sweden : 289384-0  
(SFS 2008:245)  
Product registration Denmark : 45314  
(Executive Order No. 1794 of  
18 Dec 2015)  
Product registration Italy : 654211  
(ISS)  
Halal : No certificate in place.  
Kosher : No certificate in place.  
NSF : Product does contain(s) substance(s) that is/are restricted by  
the following regulations/directives:  
U.S. - DEA (Drug Enforcement Administration)

### Information about other regulations

#### Other regulatory information Australia

Standard for the Uniform : Schedule 5  
Scheduling of Medicines and  
Poisons

#### Other regulatory information Canada

##### Canadian lists

Canadian Environmental : Dimethyl phthalate 131-11-3  
Protection Act - National Methyl ethyl ketone 78-93-3  
Pollutant Release Inventory  
Canada. CEPA 1999 : No substances are subject to a Significant New Activity  
Significant New Activity Notification.  
(SNAc) List

#### Other regulatory information China

##### Regulations on Safety Management of Hazardous Chemicals

Catalogue of Hazardous Chemicals : Listed

Identification of Major Hazard Installations for Hazardous Chemicals (GB 18218)

Category	Threshold quantity
Organic peroxides	50 t

#### Other regulatory information European Union

NL: General Assessment Methodology (GAM)

Aquatic harmfulness : B2 Toxic for aquatic organisms.

Abatement effort : B Readily biodegradable aquatic harmful substances.

Water contaminating class : WGK 1 slightly hazardous to water  
(Germany) Classification according to AwSV, Annex 1 (5.2)

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	P6b	SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES
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Regulation on prevention of major industrial accidents. Reg number 30702 P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES

- TA Luft List (Germany) :
- Total dust: Not applicable
  - Inorganic substances in powdered form: Not applicable
  - Inorganic substances in vapour or gaseous form: Not applicable
  - Organic Substances: Not applicable
  - Carcinogenic substances: Not applicable
  - Mutagenic: Not applicable
  - Toxic to reproduction: Not applicable

Volatile organic compounds : US. Clean Air Act Section 111 SOCM Intermediate or Final Volatile Organic Compounds (VOC) - 40 CFR part 60.489  
The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489):

40 CFR 51.100(s) - Definition - Volatile Organic Compounds (VOC) Exemptions  
This product does not contain any VOC exemptions listed under the U.S. Clean Air Act Section 450.

## Other regulatory information Japan Chemical Substance Control Law Priority Assessment Chemical Substance

Chemical name	Number
Methyl ethyl ketone	115

## Other regulatory information United States of America (USA)

### TSCA list

- TSCA 5(a)(2) : No substances are subject to a Significant New Use Rule.  
TSCA 12(b) : No substances are subject to TSCA 12(b) export notification requirements.

## EPCRA - Emergency Planning and Community Right-to-Know Act CERCLA

Components	CAS-No.	Component RQ (lbs)
Methyl ethyl ketone peroxide; Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane	1338-23-4	10 lbs
Methyl ethyl ketone	78-93-3	5000 lbs
Methyl ethyl ketone	78-93-3	100 lbs
Methyl ethyl ketone	78-93-3	5000 lbs
Methyl ethyl ketone	78-93-3	100 lbs

**SARA 304** : This material does not contain any components with a section

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<b>SARA 311/312</b>	:	304 EHS RQ. Organic peroxides Acute toxicity (any route of exposure) Skin corrosion or irritation Serious eye damage or eye irritation
<b>SARA 302</b>	:	
<b>SARA 313</b>	:	Hydrogen peroxide solution           7722-84-1           1 - 2 % The following components are subject to reporting levels established by SARA Title III, Section 313: Dimethyl phthalate                   131-11-3           55 - 70 %

## Clean Air Act

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61):

Dimethyl phthalate	131-11-3	55 - 70 %
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This product does not contain any chemicals subject to disclosure and listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMII Intermediate or Final VOC's (40 CFR 60.489):

Methyl ethyl ketone	78-93-3	1 - 3 %
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## Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307

Dimethyl phthalate	131-11-3	55 - 70 %
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This product contains the following priority pollutants related to the U.S. Clean Water Act:

Dimethyl phthalate	131-11-3	55 - 70 %
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## California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## List of Abbreviations

ACGIH	:	American Conference of Governmental Industrial Hygienists
CFR	:	Code of Federal Regulations
CMR	:	Carcinogenic Mutagenic and Reprotoxic
DID	:	Detergent Ingredient Database
EDTA	:	Ethylenediaminetetraacetic acid
EPA	:	Environmental Protection Agency
EU	:	European Union
IARC	:	International Agency for Research on Cancer
NTP	:	National Toxicology Program
OSHA	:	Occupational Safety and Health Administration
PFAS	:	Perfluoroalkyl sulfonate
PFCA	:	Perfluorocarboxylic acid
PFOA	:	Perfluorooctanoic acid
PFOS	:	Perfluorooctane sulfonate
REACH	:	Registration, Evaluation, Authorization and restriction of Chemicals
RoHS	:	Restriction of Hazardous Substances
SVHC	:	Substances of Very High Concern
Not Applicable	:	The product, and the substances within at the present concentrations, either does not fall under the limitations/requirements within the applicable statute for



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the regulation or the regulation is not applicable for the product and its application.

<b>AR</b> Argentina	<b>AT</b> Austria	<b>BE</b> Belgium	<b>BR</b> Brazil
<b>CA</b> Canada	<b>CH</b> Switzerland	<b>CL</b> Chile	<b>CO</b> Colombia
<b>CR</b> Costa Rica	<b>DE</b> Germany	<b>DK</b> Denmark	<b>EC</b> Ecuador
<b>ES</b> Spain	<b>EU</b> European Union	<b>FI</b> Finland	<b>FR</b> France
<b>GB</b> United Kingdom	<b>ID</b> Indonesia	<b>IN</b> India	<b>IT</b> Italy
<b>JP</b> Japan	<b>MX</b> Mexico	<b>NL</b> The Netherlands	<b>PA</b> Panama
<b>PE</b> Peru	<b>PH</b> Philippines	<b>REG WORLD</b> World	<b>SE</b> Sweden
<b>SG</b> Singapore	<b>SV</b> El Salvador	<b>TH</b> Thailand	<b>TR</b> Turkey
<b>US</b> USA	<b>UY</b> Uruguay	<b>VE</b> Venezuela	<b>VN</b> Vietnam

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