



## Declaration of REACH Conformity

regarding registration, pre-registration, C&L notification of substances and information about substances of very high concern (SVHC) as well as remarks to the RoHS directive.

1. The Linde Group (hereinafter referred to as Linde) engages only to supply substances, preparations and products conforming to REACH Regulation (EC) No. 1907/2006 to its customers from December 1<sup>st</sup>, 2008 and to inform the company about the share of substances of very high concern (SVHC) according to the Candidate List in the latest version requiring identification. This declaration becomes integral part of the delivery contract or business relationship concluded between Linde and its customers.

2. Linde has completed all registrations by 31<sup>st</sup> of May 2018 for all substances that needed to be registered according to REACH:

<u>Substance Name</u>	<u>EC-N°</u>	<u>Reg.-N°</u>	<u>Substance Name</u>	<u>EC-N°</u>	<u>Reg.-N°</u>
Acetylene	200-816-9	01-2119457406-36	Tetrafluoromethane	200-896-5	01-2120751230-69
Calcium Dihydroxide/Lime	215-137-3	01-2119475151-45	Octafluorocyclobutane	204-075-2	01-2120752168-51
Carbon monoxide	211-128-3	01-2119480165-39	Boron trichloride	233-658-4	01-2119962197-29
Sodium Hydrogencarbonate	205-633-8	01-2119457606-32	Trifluoromethane/HF23	200-872-4	01-2119971823-29
Dinitrogen oxide	233-032-0	01-2119970538-25	Hydrogenfluoride	231-634-8	01-2119458860-33
Deuterium	231-952-7	01-2120744038-56	Nitric Oxide	233-271-0	01-2120766630-54
Fluoromethane	209-796-6	01-2120746661-53	Nitrogen trifluoride	232-007-1	01-2119962459-23
Hydrogen bromide	233-133-0	01-2119479072-39	Tungsten hexafluoride	232-029-1	01-2120059384-53
Hexafluoroethane/R116	200-939-8	01-2119974606-26	Octafluoropropane	200-941-9	01-2119948589-16
Sulphur hexafluoride	219-854-2	01-2119458769-17	Arsine	232-066-3	01-2120048082-66
Hydrogenchloride	231-595-7	01-2119484862-27	Dichlorosilane	223-888-3	01-2120776028-49
Chlorine	231-959-5	01-2119486560-35	Ethylene	200-815-3	01-2119462827-27
Trichlorosilane	233-042-5	01-2119494046-35	Silicon tetrafluoride	232-015-5	01-2120762243-59
Silicon tetrachloride	233-054-0	01-2119489367-22	Silane	232-263-4	01-2119436667-29
Phosphine	232-260-8	01-2120138413-64	Ammonia, anhydrous	231-635-3	01-2119488876-14
Norflurane	212-377-0	01-2119459374-33			

3. Further, Linde assures that substances, preparations and products that are either imported from or manufactured outside EU, but not (pre-)registered according REACH as amended, are covered by the exceptions of the said directive. The exemptions are stated in the REACH Regulation (EC) no. 1907/2006 under Title 1, Article 2. In delivery of products, there is assurance that their raw material basis has been pre-registered, registered or exempted from registration according to REACH. Most important substances are here of:

- Nitrogen, Oxygen, Argon, Helium, Neon, Krypton, Xenon, Carbon dioxide, Hydrogen. Mixtures of these substances.
- Medical Gases, Food Gases and Natural Gas as well as Liquefied Petroleum Gas

4. Linde engages that the substances, preparations and products supplied by it, but not manufactured by it personally, likewise fulfil all the prerequisites of REACH as amended. To fulfil this duty, Linde obligates its sub-suppliers to exclusive delivery of products conforming to REACH in a separate, corresponding declaration of conformity.

5. In case articles containing Substances of Very High Concern (SVHC) > 0,1 % (w/w) according to the Candidate List in the latest version are supplied, Linde provides customers with the relevant information within 45 days upon inquiry according to Title IV of REACH. Linde engages to obligate its sub-suppliers to determine, document and notify it of SVHC substances by corresponding declarations. In this context, it shall set a period for notification which meets the notification period of 30 days.

5.1 Delivered articles (packaging, incl. valves or even smallest pieces of a composite article) may contain LEAD (EC N°: 231-100-4, CAS N°: 7439-92-1) to more than 0.1%. Since lead is bound as an alloying element and therefore no exposure is expected, no additional information on safe use is necessary.

5.2 Acetylene (CAS N°: 74-86-2) is dissolved in a solvent (if not specifically declared as solvent free). The solvent might be DMF N, N-dimethylformamide (CAS N°: 68-12-2). The concentration of DMF in the article (cylinder) in this case is more than 0.1%. A small quantity of the solvent (as an impurity) may be carried over with the acetylene as it is used. Since the concentration of the solvent in the gas is below the limit which could affect the classification of the acetylene, no additional information on safe use is necessary.



6. Linde assures that the classification and labelling obligations pursuant to all valid EU directives, each as amended has been taken into account. Likewise, Linde assures production of safety data sheets (SDS) corresponding to REACH according to Article 31 and Annex II (EC) no. 453/2010, as amended and also the fact that the forwarding of information is done pursuant to Article 32 – 36 REACH Regulation (EC) no. 1907/2006 as amended.

7. Linde assures that substances, preparations and products supplied to its customers don't fall under the RoHS directive 2011/65/EU; 2002/95/EG (RoHS I); 2011/65/EU (RoHS II) and 2015/863/EU (RoHS III). All technical and specialty gases and gas mixtures cannot – by nature – contain the hazardous substances listed in RoHS and are therefore exempt from that directive.

Please find further information under <http://reach.linde.com>.

Dipl. Ing (FH) Ulrich Brinkmeier-Hahn  
REACH, CLP and SDS Master Data Manager  
Linde Aktiengesellschaft, Linde Gas Headquarters  
Seitnerstrasse 70; D-82049 Pullach  
phone: +49 (0)89-7446-1678; mobile: +49 (0)151 5824 5787; mail: [reach.de@linde.com](mailto:reach.de@linde.com) ; [ulrich.brinkmeier-hahn@linde.com](mailto:ulrich.brinkmeier-hahn@linde.com)