

SAFETY DATA SHEET

Based upon Regulation (EC) No. 1907/2006, as amended by Regulation (EC) No. 453/2010

Silirub N

SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1 Product identifier: Product name : Silirub N Registration number REACH : Not applicable (mixture) Product type REACH : Mixture 1.2 Relevant identified uses of the substance or mixture and uses advised against: 1.2.1 Relevant identified uses Sealing compound 1.2.2 Uses advised against No uses advised against known 1.3 Details of the supplier of the safety data sheet: Supplier of the safety data sheet SOUDAL N.V. Everdongenlaan 18-20 B-2300 Turnhout **2** +32 14 42 42 31 +32 14 42 65 14 msds@soudal.com Manufacturer of the product SOUDAL N.V. Everdongenlaan 18-20 B-2300 Turnhout **2** +32 14 42 42 31 +32 14 42 65 14 msds@soudal.com 1.4 Emergency telephone number: 24h/24h (Telephone advice: English, French, German, Dutch): +32 14 58 45 45 (BIG) SECTION 2: Hazards identification 2.1 Classification of the substance or mixture: 2.1.1 Classification according to Regulation EC No 1272/2008 Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008 2.1.2 Classification according to Directive 67/548/EEC-1999/45/EC Not classified as dangerous according to the criteria of Directive(s) 67/548/EEC and/or 1999/45/EC 2.2 Label elements: Labelling according to Regulation EC No 1272/2008 (CLP) Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008 Supplemental information EUH208 Contains: 2-butanone oxime; trimethoxy(methyl)silane. May produce an allergic reaction. Labelling according to Directive 67/548/EEC-1999/45/EC (DSD/DPD) Not classified as dangerous in compliance with Directive 67/548/EEC and/or Directive 1999/45/EC Contains: 2-butanone oxime; trimethoxy(methyl)silane. May produce an allergic reaction. 2.3 Other hazards: CLP No other hazards known DSD/DPD May produce an allergic reaction SECTION 3: Composition/information on ingredients Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG) Publication date: 2008-06-04 134-15960-462-en Technische Schoolstraat 43 A, B-2440 Geel Date of revision: 2015-03-30 http://www.big.be © BIG vzw

Reason for revision: 2.2;4.2 Revision number: 0202

Product number: 46302

3.1 Substances:

Not applicable 3.2 Mixtures: Classification according to Note Name CAS No Classification Conc. (C) Remark REACH Registration No EC No according to DSD/DPDCLP hydrocarbons, C14-C18, n-alkan<mark>es, isoalkanes,</mark> Xn; R65 Asp. Tox. 1; H304 (1)(10) Constituent C>20 % cyclics. aromatics (2-30%) R66 01-2119448343-41

(1) For R-phrases and H-statements in full: see heading 16

(10) Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006

SECTION 4: First aid measures

4.1 Description of first aid measures:

General:

If you feel unwell, seek m<mark>edical advice.</mark>

After inhalation:

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

After skin contact:

- Wash immediately with lots of water. Soap may be used. Take victim to a doctor if irritation persists.
- After eye contact:

Rinse with water. Take victim to an ophthalmologist if irritation persists.

After ingestion:

Rinse mouth with water. Consult a doctor/medical service if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed:

4.2.1 Acute symptoms After inhalation: No effects known. After skin contact: No effects known. After eye contact: No effects known. After ingestion: No effects known. 4.2.2 Delayed symptoms No effects known.

4.3 Indication of any immediate medical attention and special treatment needed: If applicable and available it will be listed below.

SECTION 5: Firefighting measures

5.1 Extinguishing media:

- 5.1.1 Suitable extinguishing media: Polyvalent foam. ABC powder. Carbon dioxide.
- 5.1.2 Unsuitable extinguishing media: No unsuitable extinguishing media known.
- 5.2 Special hazards arising from the substance or mixture:

On burning release of car<mark>bon monoxide - carbon dioxide.</mark>

5.3 Advice for firefighters:

5.3.1 Instructions:

- No specific fire-fighting instructions required.
- 5.3.2 Special protective equipment for fire-fighters:
 - Gloves. Protective clothing. Heat/fire exposure: compressed air/oxygen apparatus.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures:
 - No naked flames.
 - 6.1.1 Protective equipment for non-emergency personnel See heading 8.2
 - 6.1.2 Protective equipment for emergency responders

Reason for revision: 2.2;4.2

Publication date: 2008-06-04 Date of revision: 2015-03-30

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Revision number: 0202

| Silirub N | |
|--|--|
| Gloves. Protective clo <mark>thing.</mark> | |
| Suitable protective clothing See heading 8.2 | |
| 6.2 Environmental precautions: Contain leaking substance. Use appropriate containment to avoid environmental contamination. | |
| 6.3 Methods and material for containment and cleaning up: Scoop solid spill into closing containers. Clean contaminated surfaces with a soap solution. Wash clothing and equipn | nent after handling. |
| 6.4 Reference to other sections: See heading 13. | |
| SECTION 7: Handling and storage | |
| The information in this section is a general description. If applicable and available, exposure scenarios are attached in an scenarios that correspond to your identified use. | nex. Always use the relevant exposure |
| 7.1 Precautions for safe handling: Keep away from naked flames/heat. Observe strict hygiene. Keep container tightly closed. | |
| 7.2 Conditions for safe storage, including any incompatibilities: 7.2.1 Safe storage requirements: | |
| Store in a dry area. Store at room temperature. Meet the legal requirements. Max. storage time: 1 year(s). | |
| 7.2.2 Keep away from: Heat sources. | |
| 7.2.3 Suitable packaging material: | |
| Synthetic material. | |
| 7.2.4 Non suitable packaging material: No data available | |
| 7.3 Specific end use(s): If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufactu | rer. |
| SECTION 8: Exposure controls/personal protection | |
| 8.1 Control parameters: 8.1.1 Occupational exposure a) Occupational exposure limit values | |
| If limit values are applicable and available these will be listed below. | |
| b) National biological limit values | |
| If limit values are applicable and available these will be listed below. | |
| 8.1.2 Sampling methods If applicable and available it will be listed below. | |
| 8.1.3 Applicable limit values when using the substance or mixture as intended | |
| If limit values are applicable and available these will be listed below. | |
| 8.1.4 DNEL/PNEC values | |
| If applicable and available it will be listed below. 8.1.5 Control banding | |
| If applicable and available it will be listed below. | |
| 8.2 Exposure controls: | |
| The information in this section is a general description. If applicable and available, exposure scenarios are attached ir | annex. Always use the relevant exposure |
| scenarios that correspond to your identified use. 8.2.1 Appropriate engineering controls | |
| Keep away from naked flames/heat. Measure the concentration in the air regularly. Carry operations in the open, | /under local exhaust/ventilation or with |
| respiratory protection. 8.2.2 Individual protection measures, such as personal protective equipment | |
| Observe strict hygiene. Keep container tightly closed. Do not eat, drink or smoke during work. | |
| a) Respiratory protection: | |
| Insufficient ventilation: wear respiratory protection. b) Hand protection: | |
| Gloves. | |
| <u>c) Eye protection:</u> | |
| Safety glasses. <u>d) Skin protection:</u> | |
| Protective clothing. | |
| 8.2.3 Environmental exposure controls: | |
| See headings 6.2, 6.3 and 13 | |
| | |
| Reason for revision: 2.2;4.2 Publication date: 20 | |
| Date of revision: 20 | 10-00-00 |

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|---|---|--|---|----------------------|--|--|--------|
| TION 9: Phys | ical and ch | emical pro | nerties | | | | |
| | | | | | | | |
| .1 Information on Physical form | i basic physical | and chemical Paste | | _ | | | |
| Odour | | | acteristic odour | | | | |
| Odour threshold | 1 | | ata available | | | | |
| Colour | | Varia | <mark>ible in co</mark> lour, depe | nding on the comp | osition | | |
| Particle size | | | <mark>ata availa</mark> ble | | | | |
| Explosion limits | | | ata available | | | | |
| Flammability | | | easily combustible | \ \ | _ | | |
| Log Kow Dynamic viscosit | TV | | <mark>applicable</mark> (mixture) ata available |) | | _ | |
| Kinematic viscosi | | | ata available | | | | |
| Melting point | - | No d | <mark>ata availa</mark> ble | | | | |
| Boiling point | | No d | <mark>ata availa</mark> ble | | | | |
| Flash point | | > 120 | | | | - | |
| Evaporation rate | | | ata available | | _ | | |
| Relative vapour o | | | <mark>ata avail</mark> able ata available | | | | |
| Vapour pressure Solubility | | | r ; insoluble | | | | |
| Relative density | | 0.97 | ,,,,, | | | | |
| Decomposition t | emperature | | ata available | | | | |
| Auto-ignition ten | | | <mark>ata availa</mark> ble | | | | |
| Explosive proper | | | hemical group asso | | | | |
| Oxidising proper | ties | | hemical group asso | ciated with oxidisir | ng properties | | |
| рН | | ואס מ | ata available | | | | |
| .2 Other informat | tion: | | | | | | |
| Surface tension | | | ata available | | | | |
| | | > 200 | seconds ; 4mm | | | | |
| Extrapolated kind | | | 1 3 | | | | |
| Absolute density TION 10: Stal 0.1 Reactivity: Temperature abo 0.2 Chemical stab | y bility and r ove flashpoint: high bility: | 970k eactivity | g/m ³ | ilable. | | | |
| Absolute density TION 10: Stal 0.1 Reactivity: Temperature abo | bility and r ove flashpoint: high bility: rmal conditions. hazardous reac | 970k eactivity ner fire/explosion h | | ilable. | | | |
| Absolute density TION 10: Stal 0.1 Reactivity: Temperature abo 0.2 Chemical stab Stable under nor 0.3 Possibility of I No data available 0.4 Conditions to Keep away from | v bility and r ove flashpoint: high bility: rmal conditions. hazardous read e. avoid: naked flames/heat | 970k eactivity ner fire/explosion h :tions: | | iilable. | | | |
| Absolute density TION 10: Stal 0.1 Reactivity: Temperature abo 0.2 Chemical stab Stable under nor 0.3 Possibility of I No data available 0.4 Conditions to Keep away from 0.5 Incompatible No data available 0.6 Hazardous de | v bility and r ove flashpoint: high bility: rmal conditions. hazardous reac e. avoid: naked flames/heat materials: e. e. | 970k eactivity her fire/explosion f :tions: t. | nazard. No data ava | ilable. | | | |
| Absolute density TION 10: Stal 0.1 Reactivity: Temperature abo 0.2 Chemical stab Stable under nor 0.3 Possibility of I No data available 0.4 Conditions to Keep away from 0.5 Incompatible No data available 0.6 Hazardous de | bility and r ove flashpoint: high bility: rmal conditions. hazardous read e. avoid: naked flames/heat materials: e. ecomposition p ase of carbon mond | 970k eactivity her fire/explosion f :tions: t. t. roducts: ixide - carbon dioxi | hazard. No data ava | iilable. | | | |
| Absolute density TION 10: Stal 0.1 Reactivity: Temperature abd 0.2 Chemical stab Stable under nor 0.3 Possibility of I No data available 0.4 Conditions to Keep away from 0.5 Incompatible No data available 0.6 Hazardous de On burning relea | bility and r ove flashpoint: high bility: rmal conditions. hazardous read e. avoid: naked flames/heat materials: e. ecomposition p ase of carbon mono kicological i | 970k eactivity her fire/explosion f :tions: t. roducts: pixide - carbon dioxi | hazard. No data ava | iilable. | | | |
| Absolute density TION 10: Stal 0.1 Reactivity: Temperature abo 0.2 Chemical stab Stable under nor 0.3 Possibility of I No data available 0.4 Conditions to Keep away from 0.5 Incompatible No data available 0.6 Hazardous de On burning relea TION 11: Tox 1.1 Information o | bility and r ove flashpoint: high bility: rmal conditions. hazardous read e. avoid: naked flames/heat materials: e. ecomposition p ase of carbon mono kicological i | 970k eactivity her fire/explosion f :tions: t. roducts: pixide - carbon dioxi | hazard. No data ava | iilable. | | | |
| Absolute density TION 10: Stal 0.1 Reactivity: Temperature abo 0.2 Chemical stab Stable under nor 0.3 Possibility of I No data available 0.4 Conditions to Keep away from 0.5 Incompatible No data available 0.6 Hazardous de On burning relea TION 11: Tox 1.1 Information o 11.1.1 Test results a toxicity Wo (test)data on the m | y bility and r ove flashpoint: high pility: rmal conditions. hazardous reac e. avoid: naked flames/heat materials: e. ecomposition p ase of carbon mono cicological i on toxicological pon toxicological | 970k eactivity her fire/explosion f ctions: t. roducts: mide - carbon dioxi nformation effects: | nazard. No data ava ide. | ilable. | | | |
| Absolute density TION 10: Stal 0.1 Reactivity: Temperature abo 0.2 Chemical stab Stable under nor 0.3 Possibility of I No data available 0.4 Conditions to Keep away from 0.5 Incompatible No data available 0.6 Hazardous de On burning relea TION 11: Tox 1.1 Information o 11.1.1 Test results a toxicity ub N | y bility and r ove flashpoint: high pility: rmal conditions. hazardous reac e. avoid: naked flames/heat materials: e. composition p ase of carbon mono cicological i on toxicological nixture available 8, n-alkanes, isoalk | eactivity eactivity her fire/explosion f tions: t. roducts: mide - carbon dioxi nformation effects: | nazard. No data ava ide. | iilable. | Species | Value | Remark |
| Absolute density TION 10: Stal 0.1 Reactivity: Temperature abo 0.2 Chemical stab Stable under nor 0.3 Possibility of I No data available 0.4 Conditions to Keep away from 0.5 Incompatible No data available 0.6 Hazardous de On burning relea TION 11: Tox 1.1 Information o 11.1.1 Test results a toxicity Ub N No (test)data on the m hydrocarbons, C14-C1 | y bility and r ove flashpoint: high pility: rmal conditions. hazardous reac e. avoid: naked flames/heat materials: e. composition p ase of carbon mono cicological i on toxicological inixture available .8, n-alkanes, isoalk e Parameter Me LD50 Eq | eactivity eactivity her fire/explosion f tions: t. roducts: pxide - carbon dioxi nformation l effects: sanes, cyclics, arom ethod uivalent to OECD | nazard. No data ava ide. N | | Species Rat (male/female) | Value determination Read-across | Remark |
| Absolute density TION 10: Stal 0.1 Reactivity: Temperature abo 0.2 Chemical stab Stable under nor 0.3 Possibility of I No data available 0.4 Conditions to Keep away from 0.5 Incompatible No data available 0.6 Hazardous de On burning relea TION 11: Tox 1.1 Information o 11.1.1 Test results a toxicity Ub N No (test)data on the m hydrocarbons, C14-C12 Route of exposure | y bility and r ove flashpoint: high pility: rmal conditions. hazardous reac e. avoid: naked flames/heat materials: e. composition p ase of carbon mono cicological i on toxicological inixture available .8, n-alkanes, isoalk e Parameter Me LD50 Eq LD50 Eq | eactivity eactivity ner fire/explosion f tions: t. roducts: pxide - carbon dioxi nformation affects: ethod uivalent to OECD auivalent to OECD | nazard. No data ava ide. N natics (2-30%) Value | | | determination | Remark |
| Absolute density ION 10: Stal O.1 Reactivity: Temperature abo Stable under nor O.2 Chemical stab Stable under nor O.3 Possibility of I No data available O.4 Conditions to Keep away from O.5 Incompatible No data available O.6 Hazardous de On burning relea ION 11: Tox I.1 Information o 11.1.1 Test results toxicity Ub N No (test)data on the m hydrocarbons, C14-C12 Route of exposure Oral | y bility and r ove flashpoint: high bility: rmal conditions. hazardous reacter hazardous reacter avoid: naked flames/heat materials: e. composition p asse of carbon mono cicological i on toxicological nixture available 8, n-alkanes, isoalk Parameter LD50 Eq LD50 Eq LD50 Eq LD50 Eq | eactivity eactivity her fire/explosion f tions: t. roducts: pxide - carbon dioxi nformation effects: anes, cyclics, aromethod uivalent to OECD 2 uivalent to OECD 2 | nazard. No data ava ide. N Natics (2-30%) Value > 4150mg/kg bw | Exposure time | Rat (male/female) | determination Read-across | Remark |
| Absolute density ION 10: Stal O.1 Reactivity: Temperature abo O.2 Chemical stab Stable under nor O.3 Possibility of I No data available O.4 Conditions to Keep away from O.5 Incompatible No data available O.6 Hazardous de On burning relea ION 11: Tox I.1 Information o 11.1.1 Test results e toxicity ub N No (test)data on the m hydrocarbons, C14-C1 Route of exposure Oral Dermal | y bility and r ove flashpoint: high pility: rmal conditions. hazardous reader hazardous reader avoid: naked flames/heat materials: e. composition p ase of carbon monor cicological i on toxicological nixture available 8, n-alkanes, isoalk a Parameter LD50 Eq 40 rs) LC50 Eq Eq | eactivity eactivity her fire/explosion f tions: t. roducts: pxide - carbon dioxi nformation effects: anes, cyclics, aromethod uivalent to OECD 2 uivalent to OECD 2 | nazard. No data ava ide. N Value > 4150mg/kg bw > 1700mg/kg bw | Exposure time | Rat (male/female) Rat (male/female) | determination Read-across Read-across Read-across | Remark |

| | | | | S | Siliru | b N | | | | |
|--|--|--|--|-------------------------------------|---------------------|--|--|--|--|--|
| Judgement is based or <u>Conclusion</u> Not classified for acut | | ingredients | | | | | | | | |
| Corrosion/irritation | etoxicity | | | | | _ | | | | |
| <u>Silirub N</u> No (test)data on the n | nixture a <mark>vaila</mark> t | ble | | | | | | | | |
| hydrocarbons, C14-C1 | | soalkanes, cyclie | cs, aroma | itics (2-3 | <u>0%)</u> | | | | | |
| Route of exposure | Result | Method | | Expos | ure time | Time point | Species | Value determ | ination | Remark |
| Еуе | Not irritating | Equivaleı OECD 40 | | | | 1; 24; 48; 72; 168 hours | Rabbit | Read-ad | cross | |
| Skin | Not irritating | | nt to | 4 h | | 24; 48; 72 hours | Rabbit | Read-ad | cross | |
| Judgement is based of Conclusion | | ingredients | - | | | | | | | |
| Not classified as irritat Not classified as irritat | • | | | | | | | | | |
| Not classified as irritat | - | | | | | | | | | |
| Respiratory or skin sensitis | ation | | | | | | | | | |
| <u>Silirub N</u> | | | | | | | | | | |
| No (test)data on the n hydrocarbons, C14-C1 | | | | tice (2.2 | 20%) | | | | | |
| Route of exposure | | Method | | | ire time | Observation time | Species | Value dete | ermination | Remark |
| Skin | Not sens <mark>itizin</mark> g | g Equivalent t | to OECD | | | point 24; 48 hours | Guinea pig | Read-acros | SS | |
| | Not sensitizing | 406 | | | | | (male/female) | Read-acros | | |
| Skin Judgement is based o | | | | | | | Human | | 55 | 1] |
| Conclusion | tinin n fan in hal | | | | | | | | | |
| Not classified as sensi Not classified as sensi | - | ation | | | | | | | | |
| Specific target organ toxici | tv | | | | | | | | | |
| | ., | | | | | | | | | |
| Silirub N | | | | | | | | | | |
| No (test)data on the mi | xture available | e | | | | | | | | |
| No (test)data on the mi hydrocarbons, C14-C1 | 18, n-alka <mark>nes, i</mark> | soalkanes, cycli | | <u>itics (2-3</u> | - | here - | | | _ | - <u></u> |
| No (test)data on the mi | 18, n-alka <mark>nes, i</mark> | soalkanes, cycli | cs, aroma Value | itics (2-3 | <u>0%)</u> Organ | Effect | Exposure time | Spec | ies | Value determination |
| No (test)data on the mi <u>hydrocarbons, C14-C1</u> Route of exposure Oral (stomach | 18, n-alka <mark>nes, i</mark> | soalkanes, cyclio Method Equivalent to | Value | g/kg | - | Effect No effect | Exposure time | Rat | | |
| No (test)data on the mi <u>hydrocarbons, C14-C1</u> Route of exposure | <u>18, n-alka<mark>nes, i</mark> e Parameter</u> | soalkanes, cyclie Method Equivalent to OECD 407 Equivalent to | Value 1036m bw/day > 495m | g/kg / ng/kg | - | No effect No adverse | 30 day(s) 13 weeks (5 | Rat (male Rat | e/female) | determination |
| No (test)data on the mi hydrocarbons, C14-C1 Route of exposure Oral (stomach tube) | <u>18, n-alka<mark>nes, i</mark> e Parameter</u> NOAEL | Soalkanes, cyclin Method Equivalent to OECD 407 | Value 1036m bw/day > 495m bw/day | g/kg / ng/kg | Organ | No effect No adverse | 30 day(s) 13 weeks (5 its days/week) 13 weeks (6h/d | Rat (male Rat (male | | determination Read-across |
| No (test)data on the mi <u>hydrocarbons, C14-C1</u> Route of exposure Oral (stomach tube) Dermal Inhalation (vapours) | <u>Respectively and the second se</u> | Soalkanes, cyclin Method Equivalent to OECD 407 Equivalent to OECD 411 Equivalent to OECD 411 Equivalent to OECD 411 | Value 1036m bw/day > 495m bw/day | g/kg / ng/kg / | Organ | No effect No adverse systemic effec | 30 day(s) 13 weeks (5 ts days/week) | Rat (male Rat (male | e/female) e/female) | determination Read-across Read-across |
| No (test)data on the mi <u>hydrocarbons, C14-C1</u> Route of exposure Oral (stomach tube) Dermal Inhalation (vapours) Judgement is based on <u>Conclusion</u> | 18. n-alkanes, i e Parameter NOAEL NOAEL NOAEL NOAEC n the relevant | Soalkanes, cyclin Method Equivalent to OECD 407 Equivalent to OECD 411 Equivalent to OECD 411 Equivalent to OECD 413 ingredients | Value 1036m bw/day > 495m bw/day | g/kg / ng/kg / | Organ | No effect No adverse systemic effec | 30 day(s) 13 weeks (5 its days/week) 13 weeks (6h/d | Rat (male Rat (male | e/female) e/female) | determination Read-across Read-across |
| No (test)data on the mi hydrocarbons, C14-C1 Route of exposure Oral (stomach tube) Dermal Inhalation (vapours) Judgement is based or <u>Conclusion</u> Not classified for subc | 18. n-alkanes, i e Parameter NOAEL NOAEL NOAEL NOAEC n the relevant | Soalkanes, cyclin Method Equivalent to OECD 407 Equivalent to OECD 411 Equivalent to OECD 411 Equivalent to OECD 413 ingredients | Value 1036m bw/day > 495m bw/day | g/kg / ng/kg / | Organ | No effect No adverse systemic effec | 30 day(s) 13 weeks (5 its days/week) 13 weeks (6h/d | Rat (male Rat (male | e/female) e/female) | determination Read-across Read-across |
| No (test)data on the mi <u>hydrocarbons, C14-C1</u> Route of exposure Oral (stomach tube) Dermal Inhalation (vapours) Judgement is based on <u>Conclusion</u> | 18. n-alkanes, i e Parameter NOAEL NOAEL NOAEL NOAEC n the relevant | Soalkanes, cyclin Method Equivalent to OECD 407 Equivalent to OECD 411 Equivalent to OECD 411 Equivalent to OECD 413 ingredients | Value 1036m bw/day > 495m bw/day | g/kg / ng/kg / | Organ | No effect No adverse systemic effec | 30 day(s) 13 weeks (5 its days/week) 13 weeks (6h/d | Rat (male Rat (male | e/female) e/female) | determination Read-across Read-across |
| No (test)data on the mi <u>hydrocarbons, C14-C1</u> Route of exposure Oral (stomach tube) Dermal Inhalation (vapours) Judgement is based or <u>Conclusion</u> Not classified for subc Mutagenicity (in vitro) <u>Sillirub N</u> | 18. n-alkanes, i e Parameter NOAEL NOAEL NOAEL NOAEC n the relevant chronic toxicity | Soalkanes, cyclin Method Equivalent to OECD 407 Equivalent to OECD 411 Equivalent to OECD 413 ingredients | Value 1036m bw/day > 495m bw/day | g/kg / ng/kg / | Organ | No effect No adverse systemic effec | 30 day(s) 13 weeks (5 its days/week) 13 weeks (6h/d | Rat (male Rat (male | e/female) e/female) | determination Read-across Read-across |
| No (test)data on the mi hydrocarbons, C14-C1 Route of exposure Oral (stomach tube) Dermal Inhalation (vapours) Judgement is based or <u>Conclusion</u> Not classified for subc Mutagenicity (in vitro) | 18, n-alkanes, i e Parameter NOAEL NOAEL NOAEC n the relevant chronic toxicity nixture available | Soalkanes, cycli Method Equivalent to OECD 407 Equivalent to OECD 411 Equivalent to OECD 413 ingredients | Value 1036mį bw/day > 495m bw/day 3950mį | g/kg / ng/kg / g/m³ air | Organ | No effect No adverse systemic effec | 30 day(s) 13 weeks (5 its days/week) 13 weeks (6h/d | Rat (male Rat (male | e/female) e/female) | determination Read-across Read-across |
| No (test)data on the mi <u>hydrocarbons, C14-C1</u> Route of exposure Oral (stomach tube) Dermal Inhalation (vapours) Judgement is based or <u>Conclusion</u> Not classified for subc Mutagenicity (in vitro) <u>Silirub N</u> No (test)data on the m <u>hydrocarbons, C14-C1</u> Result | 18, n-alkanes, i e Parameter NOAEL NOAEL NOAEL NOAEC n the relevant chronic toxicity nixture availat 18, n-alkanes, i N | Soalkanes, cyclid Method Equivalent to OECD 407 Equivalent to OECD 411 Equivalent to OECD 413 ingredients | Value 1036mį bw/day > 495m bw/day 3950mį cs, aroma | g/kg / ng/kg / g/m³ air | Organ | No effect No adverse systemic effect No effect | 30 day(s) 13 weeks (5 days/week) 13 weeks (6h/d days/week) | Rat (male Rat (male | e/female) e/female) female) | determination Read-across Read-across Read-across ermination |
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No (test)data on the mixture available

hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30%)

| Result | Method | Exposure time | Test substrate | Organ | Value determination |
|----------|---------------------------|---------------|---------------------|-------|---------------------|
| Negative | Equivalent to OECD 475 | | Rat (male/female) | | Read-across |
| Negative | Equivalent to OECD 474 | | Mouse (male/female) | | Read-across |

Carcinogenicity

<u>Silirub N</u>

No (test)data on the mixture available

Reproductive toxicity

<u>Silirub N</u>

No (test)data on the mixture a<mark>vailable</mark>

hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30%)

| | Parameter | Method | Value | Exposure time | Species | Effect | · J. | Value determination |
|------------------------|-----------|--------|------------------------------------|---------------|------------|-----------|--------|------------------------|
| Developmental toxicity | NOAEL | | > 1000mg/kg bw/day | 10 day(s) | Rat | No effect | Foetus | Experimental value |
| Maternal toxicity | NOAEL | | > 1000mg/kg bw/day | 10 day(s) | Rat | No effect | | Experimental value |
| Effects on fertility | | • | <mark>≥ 300</mark> mg/kg bw/day | 14-16 week(s) | Rat (male) | No effect | | Experimental value |

Judgement is based on the relevant ingredients Conclusion CMR

Not classified for reprotoxic or developmental toxicity Not classified for mutagenic or genotoxic toxicity Not classified for carcinogenicity

Not classified for carcinogenicit

Toxicity other effects

<u>Silirub N</u>

No (test)data on the mixture available

hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30%)

| | Parameter | Method | Value | Organ | Effect | Exposure time | Value determination |
|---|-----------|--------|-------|-------|-----------------|---------------|------------------------|
| Γ | | | | | Skin dryness or | | Literature study |
| | | | | | cracking | | |

Chronic effects from short and long-term exposure

<u>Silirub N</u>

ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Skin rash/inflammation.

SECTION 12: Ecological information

12.1 Toxicity:

<u>Silirub N</u>

No (test)data on the mixture ava<mark>ilable</mark>

| hydrocarbons | $C1/1_{-}C18$ | n-alkanos | icoalkanac | cyclics | aromatics | 12-200 | 1/2 |
|-----------------|---------------|-----------------|--------------|-----------|-----------|--------|-----|
| Invulocal Dolls | , CI4-CIO, | I I ai Kai ies, | isuaikaries, | , cycnes, | aiomatics | 2-30/ | ν0 |

| | Parameter | Method | Value | Duration | Species | | Fresh/salt water | Value determinatior |
|--|-----------|----------|--------------------------|-----------|-------------------------------------|-----------------------|---------------------|---------------------|
| Acute toxicity fishes | LL50 | OECD 203 | > 1000mg/l | 96 h | Oncorhynchus mykiss | Semi-static system | Fresh water | Read-across; GLP |
| Acute toxicity invertebrates | NOEC | OECD 202 | <mark>≥ 100</mark> 0mg/l | 48 h | Daphnia magna | Static system | Fresh water | Read-across; GLP |
| Toxicity algae and other aquatic plants | ErC50 | OECD 201 | 1000mg/l | 72 h | Pseudokirchnerie Ila subcapitata | Static system | Salt water | Read-across; GLP |
| Long-term toxicity fish | LL50 | OECD 204 | > 5000mg/l | 21 day(s) | Danio rerio | Semi-static system | Fresh water | Read-across; GLP |
| | NOELR | OECD 204 | 5000mg/I | 21 day(s) | | Semi-static system | Fresh water | Read-across; GLP |
| Long-term toxicity aquatic invertebrates | NOELR | OECD 211 | < 2500mg/l | 21 day(s) | | Semi-static system | Fresh water | Read-across; GLP |
| Toxicity aquatic micro- organisms | EC0 | OECD 209 | ≥ 1000mg/l | 5 minutes | Activated sludge | Static system | Fresh water | Read-across |
| Toxicity sediment organisms | LC50 | | 503mg/kg sediment dw | 10 day(s) | Corophium volutator | Static system | Salt water | Experimental value |

Reason for revision: 2.2;4.2

Publication date: 2008-06-04 Date of revision: 2015-03-30

Silirub N Judgement is based on the relevant ingredients Conclusion Not classified as dangerous for the environment according to the criteria of Directive 1999/45/EC Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008 12.2 Persistence and degradability: hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30%) **Biodegradation water** Method Value Duration Value determination 59.1% 28 day(s) Literature study OECD 301F: Manometric Respirometry Test 60.7% 28 day(s) Experimental value Phototransformation air (DT50 air) Conc. OH-radicals Method Value determination Value AOPWIN v1.92 0.254h - 0.850h 1.5 E6 /cm³ QSAR Conclusion Contains readily biodegradable component(s) 12.3 Bioaccumulative potential: <u>Silirub N</u> Log Kow Method Remark Value Temperature Value determination Not applicable (mixture) hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30%) Log Kow Value determination Method Remark Value Temperature > 3.5 Conclusion Contains bioaccumulative component(s) 12.4 Mobility in soil: hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30%) Percent distribution Method Fraction air Fraction biota Fraction Fraction soil Fraction water Value determination sediment Mackay level III 15% 0% 4% 30% 1% Calculated value **Conclusion** Contains component(s) that adsorb(s) into the soil 12.5 Results of PBT and vPvB assessment: Does not contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006. 12.6 Other adverse effects: Silirub N Global warming potential (GWP) None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EC) No 517/2014) Ozone-depleting potential (ODP) Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009) hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30%) Global warming potential (GWP) Not included in the list of fluorinated greenhouse gases (Regulation (EC) No 517/2014) SECTION 13: Disposal considerations The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use. 13.1 Waste treatment methods: 13.1.1 Provisions relating to waste Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

08 04 10 (wastes from MFSU of adhesives and sealants (including waterproofing products): waste adhesives and sealants other than those mentioned in 08 04 09). Depending on branch of industry and production process, also other waste codes may be applicable. Can be considered as non hazardous waste according to Directive 2008/98/EC.

13.1.2 Disposal methods

Remove waste in accordance with local and/or national regulations. Do not discharge into drains or the environment. Dispose of at authorized waste collection point.

| Reason for revision: 2.2;4.2 | Publication date: 2008-06-04 |
|------------------------------|------------------------------|
| | Date of revision: 2015-03-30 |
| | |

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| | Special provisions | | | | |
|------|---|--|-------------|-------------|--|
| | Limited quantities | | | | |
| 14. | 7 Transport in bulk accord | ding to Annex II of MARPOL 73/78 and | the IBC Co | de: | |
| | Annex II of MARPOL 73/ | 78 | | | |
| • | CAO-TI/IATA-DGR) | | | | |
| | Transport | | | Not subject | |
| 14.2 | 2 UN proper shipping nar | ne: | | | |
| 14.3 | 3 Transport hazard class(| es): | | | |
| | Class | | | | |
| 14.4 | 4 Packing group: | | | | |
| | Packing group | | | | |
| | Labels | | | | |
| 14.5 | 5 Environmental hazards: | | | | |
| | Environmentally hazardo | ous substance mark | | no | |
| 14.6 | 5 Special precautions for | user: | | | |
| | Special provisions | | | | |
| | Passenger and cargo tran per packaging | nsport: limited quantities: maximum ne | et quantity | | |

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

European legislation:

VOC content Directive 2010/75/EU

| VOC content | Remar | ĸ | |
|---|-------|---|--|
| 0% | | | |
| Plant protection products - listed ingredient | | | |

Plant protection products - listed ingredient Contains component(s) included in implementing Regulation (EU) No 540/2011

REACH Annex XVII - Restriction

Contains component(s) subject to restrictions of Annex XVII of Regulation (EC) No 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

| hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30%) | Liquid substances or mixtures which regarded as dangerous in accordance Directive 1999/45/EC or are fulfilling criteria for any of the following hazar or categories set out in Annex I to Re (EC) No 1272/2008: (a) hazard classes 2.1 to 2.4, 2.6 and types A and B, 2.9, 2.10, 2.12, 2.13 cr and 2, 2.14 categories 1 and 2, 2.15 t F; (b) hazard classes 3.1 to 3.6, 3.7 adve effects on sexual function and fertilit development, 3.8 effects other than effects, 3.9 and 3.10; (c) hazard class 4.1; (d) hazard class 5.1. | ce with - ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays, ard classes - tricks and jokes, Regulation - games for one or more participants, or any article intended to be used as such, even with ornamental aspects, 2. Articles not complying with paragraph 1 shall not be placed on the d 2.7, 2.8 acategories 1 required for fiscal reasons, or perfume, or both, if they: 5 types A to - can be used as fuel in decorative oil lamps for supply to the general public, and, - present an aspiration hazard and are labelled with R65 or H304,4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European |
|--|---|--|
| National legislation The Neth Silirub N | erlands | |
| Waste identification (the Netherlands) | E LWCA (the Netherlands): KGA ca | category 03 |
| Waterbezwaarlijkheid | 11 | |
| eason for revision: 2.2;4.2 | | Publication date: 2008-06-04 Date of revision: 2015-03-30 |
| evision number: 0202 | | Product number: 46302 9 / 10 |

Siliruh M

| | 3 | | | |
|---|---|---|--|---|
| National legislation Germa | ny | | | |
| Silirub N WGK | 1. Classification water pollution | g based on the components in comp | lianco with Vorwaltungsvo | rschrift wassargafährdandar |
| | Stoffe (VwVwS) of 27 July 2005 | (Anhang 4) | mance with verwartungsvo | ischint wassergerann den der |
| hydrocarbons, C14-C18, TA-Luft | n-alkanes, isoalkanes, cyclics, aromatic 5.2.5; I | <u>s (2-30%)</u> | | 1 |
| National legislation France | 0.2.0,1 | | | |
| Silirub N | | | | |
| No data available | | | | |
| National legislation Belgiur | <u>n</u> | | | |
| <u>Silirub N</u> No data available | | | | |
| Other relevant data | | | | |
| <u>Silirub N</u> | | | | |
| No data available | | | | |
| 5.2 Chemical safety ass | | | | |
| No chemical safety asse | | | | |
| ION 16: Other in | | | | |
| | eferred to under headings 2 and 3: se lung damage if swallowed | | | |
| • • | e may cause skin dryness or cracking | | | |
| - | its referred to under headings 2 and 3: vallowed and enters airways. | | | |
| (*) = INTERNAL CLASSIF | | | | |
| - | tent, bioaccumulative and toxic substar ous Substance Directive | ICES | | |
| | ous Preparation Directive ation, labelling and packaging (Globally | Harmonised System in Europe) | | |
| state of knowledge at th of the substances/prepa- may be used. Old versio substances/preparation substances/preparation take all measures dictat circumstances. BIG does parties. This safety data at your own risk. Use of failing the general cond | safety data sheet is based on data and s hat time. The safety data sheet only con arations/mixtures mentioned under poi ns must be destroyed. Unless indicated s/mixtures in purer form, mixed with of s/mixtures in question. Compliance wit ed by common sense, regulations and r s not guarantee the accuracy or exhausi sheet is only to be used within the Euro this safety data sheet is subject to the I itions of BIG. All intellectual property rig agreement/conditions for details. | stitutes a guideline for the safe hand nt 1. New safety data sheets are wri otherwise word for word on the saf her substances or in processes. The n the instructions in this safety data ecommendations or which are nece iveness of the information provided opean Union, Switzerland, Iceland, N icence and liability limiting condition | dling, use, consumption, stu itten from time to time. On fety data sheet, the inform e safety data sheet offers no sheet does not release the essary and/or useful based d and cannot be held liable Norway and Liechtenstein. A ns as stated in your BIG lice | orage, transport and disposal ly the most recent versions ation does not apply to o quality specification for the e user from the obligation to on the real applicable for any changes by third Any use outside of this area is once agreement or when this i |
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| for revision: 2.2;4.2 | | Publi | ication date: 2008-06-04 | |
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| on number: 0202 | | Produ | uct number: 46302 | 10/10 |