

# Methyl 2-(trifluoromethyl)-3,3,3trifluoropropanoate Safety Data Sheet 2123312 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 05/02/2016 Version: 1.0

| SECTION 1: Identification  |   |  |        |
|--|---|--|--------|
| 1.1. Identification  |   |  |        |
| Product form   | Substance   |  |        |
| Substance name   | : Methyl 2-(trifluoromethyl)-3,3,3-trifluoropropanoate  |  |        |
| CAS No   | : 360-54-3  |  |        |
| Product code   | : 2123-3-12   |  |        |
| Formula  | C5H4F6O2  |  |        |
|  | Methyl 2H-hexafluoroisobutyrate   |  |        |
|  | MFCD00054663  |  |        |
|  | nce or mixture and uses advised again   | et.  |        |
|  |   | St   |        |
| Use of the substance/mixture   | <ul> <li>Laboratory chemicals</li> <li>Manufacture of substances</li> <li>Scientific research and development</li> </ul>  |  |        |
| 1.3. Details of the supplier of the safety da  | ata sheet   |  |        |
| SynQuest Laboratories, Inc.<br>P.O. Box 309<br>Alachua, FL 32615 - United States of America<br>T (386) 462-0788 - F (386) 462-7097<br>info@synquestlabs.com - www.synquestlabs.com<br>1.4. Emergency telephone number  |   |  |        |
|  | : (844) 523-4086 (3E Company - Account  | 10069)   |        |
| SECTION 2: Hazard(s) identification2.1.Classification of the substance or mixClassification (GHS-US)Flam. Liq. 3H226 - Flammable liquid and vapoSkin Irrit. 2H315 - Causes skin irritationEye Irrit. 2AH319 - Causes serious eye irritationSTOT SE 3H335 - May cause respiratory irritationFull text of H-phrases: see section 162.2.Label elementsGHS-US labelingHazard pictograms (GHS-US) | ur<br>n   |  |        |
| Signal word (GHS-US)<br>Hazard statements (GHS-US)   | GHS02<br>GHS02<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07<br>GHS07 |  |        |
|  | P210 - Keep away from heat/sparks/ope<br>P233 - Keep container tightly closed<br>P240 - Ground/bond container and rece<br>P241 - Use explosion-proof electrical/ve<br>P242 - Use only non-sparking tools<br>P243 - Take precautionary measures ag<br>P261 - Avoid breathing fumes, mist, spr<br>P264 - Wash skin thoroughly after hand<br>P271 - Use only outdoors or in a well-ve<br>P280 - Wear protective gloves/protective<br>P302+P352 - If on skin: Wash with plent<br>P303+P361+P353 - If on skin (or hair):   | iving equipment<br>ntilating/lighting equipment<br>ay, vapors<br>ing<br>ntilated area<br>e clothing/eye protection/face protection<br>y of soap and water<br>Fake off immediately all contaminated clothing. |        |
| 12/06/2016   | EN (English US)   | SDS ID: 2123312  | Page 1 |

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

|  | P305+P351+P338 - If in<br>lenses, if present and ea<br>P312 - Call a POISON C<br>P321 - Specific treatmen<br>P332+P313 - If skin irrita<br>P337+P313 - If eye irrital<br>P362+P364 - Take off cc<br>P370+P378 - In case of f<br>P403+P233 - Store in a v<br>P403+P235 - Store in a v<br>P405 - Store locked up | P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing<br>P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact<br>lenses, if present and easy to do. Continue rinsing<br>P312 - Call a POISON CENTER or doctor/physician if you feel unwell<br>P321 - Specific treatment (see supplemental first aid instructions on this label)<br>P332+P313 - If skin irritation occurs: Get medical advice/attention<br>P337+P313 - If eye irritation persists: Get medical advice/attention<br>P362+P364 - Take off contaminated clothing and wash it before reuse<br>P370+P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish<br>P403+P235 - Store in a well-ventilated place. Keep cool |                 |   |         |
|--|--|---|-----------------|---|---------|
| 2.3. Other hazards   |  |   |                 |   |         |
| No additional information available<br>2.4. Unknown acute toxicity (GHS US | 2)   |   |                 |   |         |
| Not applicable   | 5)   |   |                 |   |         |
| SECTION 3: Composition/informa   | ation on ingradiants   |   |                 |   |         |
| 3.1. Substance   |  |   |                 |   |         |
| Substance type   | : Mono-constituent   |   |                 |   |         |
| Name   | Product identifie  | ar  | %               | Classification (GHS-US)   |         |
| Methyl 2-(trifluoromethyl)-3,3,3-trifluoropropanoat                        |  | -   | <= 100          | Flam. Liq. 3, H226  |         |
| (Main constituent)   |  |   |                 | Skin Irrit. 2, H315<br>Eye Irrit. 2A, H319<br>STOT SE 3, H335   |         |
| Full text of H-phrases: see section 16                                     |  | ·   |                 |   |         |
| 3.2. Mixture   |  |   |                 |   |         |
| lot applicable   |  |   |                 |   |         |
| SECTION 4: First aid measures  |  |   |                 |   |         |
| I.1. Description of first aid measures                                     |  |   |                 |   |         |
| irst-aid measures general  | where possible). Move the  | ne affected personnel a   | away from the o |   |         |
| First-aid measures after inhalation  | respiration. Get medical   | advice/attention.   |                 | g. If not breathing, give artifi                                | cial    |
| First-aid measures after skin contact                                      | : Wash with plenty of soap   |   |                 |   |         |
| First-aid measures after eye contact                                       | present and easy to do.  | Continue rinsing. Get r   | nedical advice/ |   | ses, ir |
| First-aid measures after ingestion   | mouth out with water. Ge   | et medical advice/atten   |                 | unconscious person. Rinse                                       |         |
| 4.2. Most important symptoms and e   |  |   |                 |   |         |
| Symptoms/injuries  | 2.2) and/or in section 11.   |   | ts are describe | ed in the labelling (see section                                | on      |
| 4.3. Indication of any immediate med<br>Treat symptomatically.             | dical attention and special treat  | tment needed  |                 |   |         |
| SECTION 5: Firefighting measure  | S  |   |                 |   |         |
| 5.1. Extinguishing media   |  |   |                 |   |         |
| Suitable extinguishing media   | : Alcohol resistant foam. C<br>appropriate for surroundi   |   | wder. Water sp  | ray. Use extinguishing medi                                     | а       |
| .2. Special hazards arising from the                                       | e substance or mixture   |   |                 |   |         |
| ire hazard   | : Thermal decomposition g  | generates: Carbon oxid  | des. Hydrogen   | fluoride.   |         |
| Explosion hazard   | : Risk of explosion if heate<br>containers. May form flar  |   |                 | ay or fog for cooling exposed                                   | 1       |
| 5.3. Advice for firefighters   |  |   |                 |   |         |
| Firefighting instructions  | : In case of fire: Evacuate  | •   | •               | •   |         |
| Protection during firefighting   |  |   |                 | vith self contained breathing<br>e controls/personal protection | on".    |
| 12/06/2016   | EN (English US)  | 5   | DS ID: 2123312  |   | 2/7     |

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| <b>SECTION 6: Accidental release meas</b>           | ures  |
|---|---|
| 6.1. Personal precautions, protective equ           |   |
| General measures                                    | : Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, fumes, vapor or spray.   |
| 6.1.1. For non-emergency personnel                  |   |
| Emergency procedures                                | : Only qualified personnel equipped with suitable protective equipment may intervene.   |
| 6.1.2. For emergency responders                     |   |
| Protective equipment                                | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".   |
| Emergency procedures                                | : Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level. Consider the risk of potentially explosive atmospheres. Eliminate every possible source of ignition.  |
| 6.2. Environmental precautions                      |   |
| Avoid release to the environment. Notify authoritie | es if product enters sewers or public waters.   |
| 6.3. Methods and material for containme             | nt and cleaning up  |
| For containment                                     | : Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.  |
| Methods for cleaning up                             | : Take up large spills with pump or vacuum and finish with dry chemical absorbent. Use explosion-proof equipment. Take up small spills with dry chemical absorbent. Sweep or shovel spills into appropriate container for disposal. Ventilate area.   |
| Other information                                   | : For disposal of solid materials or residues refer to section 13 : "Disposal considerations".  |
| 6.4. Reference to other sections                    |   |
| No additional information available                 |   |
| SECTION 7: Handling and storage                     |   |
| 7.1. Precautions for safe handling                  |   |
| Additional hazards when processed                   | : Handle empty containers with care because residual vapors are flammable.  |
| Precautions for safe handling                       | : Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe fumes, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes. Keep away from ignition sources (including static discharges). Proper grounding procedures to avoid static electricity should be followed. Use only non-sparking tools. |
| Hygiene measures                                    | : Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.  |
| 7.2. Conditions for safe storage, includin          | g any incompatibilities   |
| Technical measures                                  | : Comply with applicable regulations.   |
| Storage conditions                                  | : Keep container closed when not in use. Keep away from ignition sources. Moisture sensitive.<br>Keep contents under inert gas.   |
| Incompatible materials                              | : Refer to Section 10 on Incompatible Materials.  |
| Storage area  | : Store in dry, cool, well-ventilated area.   |

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

No additional information available

| 8.2. Exposure controls           |   |
|----------------------------------|---|
| Appropriate engineering controls | : Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. |
| Hand protection                  | : Protective gloves. 29 CFR 1910.138: Hand Protection.  |
| Eye protection                   | : Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.  |
| Skin and body protection         | : Wear suitable protective clothing.  |
| Respiratory protection           | : In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory<br>Protection.  |
| Other information                | : Safety shoes. 29 CFR 1910.136: Foot Protection.   |

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| <b>SECTION 9: Physical and chemical</b>                               | properties                             |   |                       |
|---|--|---|-----------------------|
| 9.1. Information on basic physical and                                |  |   |                       |
| Physical state  | : Liquid                               |   |                       |
| Color   | : No data available                    |   |                       |
| Odor  | : No data available                    |   |                       |
| Odor threshold  | : No data available                    |   |                       |
| рН  | : No data available                    |   |                       |
| Melting point   | : No data available                    |   |                       |
| Freezing point  | : No data available                    |   |                       |
| Boiling point   | : 90 - 91 °C                           |   |                       |
| Flash point   | : 60 °C                                |   |                       |
| Relative evaporation rate (butyl acetate=1)                           | : No data available                    |   |                       |
| Flammability (solid, gas)   | : No data available                    |   |                       |
| Explosion limits  | : No data available                    |   |                       |
| Explosive properties  | : No data available                    |   |                       |
| Dxidizing properties  | : No data available                    |   |                       |
| Vapor pressure  | : No data available                    |   |                       |
| Relative density  | : No data available                    |   |                       |
| Relative vapor density at 20 °C                                       | : No data available                    |   |                       |
| Specific gravity / density  | : 1.604 g/ml (@ 20 °C)                 |   |                       |
| Molecular mass  | : 210.07 g/mol                         |   |                       |
| Solubility  | : No data available                    |   |                       |
| _og Pow   | : No data available                    |   |                       |
| Auto-ignition temperature   | : No data available                    |   |                       |
| Decomposition temperature   | : No data available                    |   |                       |
| /iscosity   | : No data available                    |   |                       |
| viscosity, kinematic  | : No data available                    |   |                       |
| Viscosity, dynamic  | : No data available                    |   |                       |
| 9.2. Other information  |  |   |                       |
| Refractive index  | : 1.269 (@ 20 °C)                      |   |                       |
| SECTION 40. Stability and recetivit                                   |  |   |                       |
| SECTION 10: Stability and reactivit                                   | .y                                     |   |                       |
| 10.1. Reactivity  |  |   |                       |
| No additional information available                                   |  |   |                       |
| 10.2. Chemical stability  |  |   |                       |
| The product is stable at normal handling and s                        | torage conditions.                     |   |                       |
| 10.3. Possibility of hazardous reactions                              | <b>i</b>                               |   |                       |
| No additional information available                                   |  |   |                       |
| 10.4. Conditions to avoid   |  |   |                       |
| Keep away from heat, sparks and flame.                                |  |   |                       |
| 10.5. Incompatible materials  |  |   |                       |
| Strong acids. Strong bases. Strong oxidizing a                        | gents. Strong reducing agents          |   |                       |
|   |  |   |                       |
| 10.6. Hazardous decomposition produc                                  |  | not be produced Hazardous decomposition | n products in case of |
| Under normal conditions of storage and use, h<br>fire, see Section 5. | azaruous decomposition products should |   | in products in case c |
| SECTION 11: Toxicological information                                 | ation                                  |   |                       |
|   |  |   |                       |
| 11.1. Information on toxicological effec                              | 15                                     |   |                       |
| A cuto toxicity   | · Not classified                       |   |                       |
| Acute toxicity  | : Not classified                       |   |                       |
| Skin corrosion/irritation   | : Causes skin irritation.              |   |                       |
| Serious eye damage/irritation   | : Causes serious eye irritation.       |   |                       |
| 12/06/2016  | EN (English US)                        | SDS ID: 2123312                         | 4/7                   |

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| Respiratory or skin sensitization                  | : Not classified                    |
|--|-------------------------------------|
| Germ cell mutagenicity                             | : Not classified                    |
| Carcinogenicity                                    | : Not classified                    |
| Reproductive toxicity                              | : Not classified                    |
| Specific target organ toxicity (single exposure)   | : May cause respiratory irritation. |
| Specific target organ toxicity (repeated exposure) | : Not classified                    |
| Aspiration hazard                                  | : Not classified                    |
|  |                                     |

| SECT    | ION 12: Ecological information |
|---------|--------------------------------|
| 12.1.   | Toxicity                       |
| No addi | tional information available   |
| 12.2.   | Persistence and degradability  |
| No addi | tional information available   |
| 12.3.   | Bioaccumulative potential      |
| No addi | tional information available   |
| 12.4.   | Mobility in soil               |
| No addi | tional information available   |
| 12.5.   | Other adverse effects          |
| No addi | tional information available   |

| <b>SECTION 13: Disposal consideration</b> | ns  |
|---|---|
| 13.1. Waste treatment methods             |   |
| Waste treatment methods                   | : Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.   |
| Waste disposal recommendations            | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Additional information                    | : Recycle the material as far as possible.  |
|   |   |

#### **SECTION 14: Transport information**

#### Department of Transportation (DOT)

In accordance with DOT Transport document description

UN-No.(DOT) Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)

Packing group (DOT) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) : UN3272 Esters, n.o.s., 3, III

: UN3272

- : Esters, n.o.s.
- : 3 Class 3 Flammable and combustible liquid 49 CFR 173.120
- : 3 Flammable liquid



- : III Minor Danger
- : 203
- : 242

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| DOT Special Provisions (49 CFR 172.102)   | bulk packaging<br>flash point of le<br>subchapter are<br>IB3 - Authorize<br>(31HZ1 and 31<br>with a vapor pr<br>C (1.3 bar at 13<br>2 for UN2672).<br>T4 - 2.65 178.2<br>TP1 - The max<br>following: Degr<br>during transpor<br>TP29 - A portal<br>provided the ca | requirements of 173.241 of this sub<br>ess than 38 C (100 F), then the bulk<br>applicable.<br>d IBCs: Metal (31A, 31B and 31N);<br>HA2, 31HB2, 31HN2, 31HD2 and 3<br>essure less than or equal to 110 kPa<br>31 F) are authorized, except for UN2<br>(74(d)(2) Normal | eed the degree of filling determined by the re: tr is the maximum mean bulk temperature |
|---|--|---|---|
| DOT Packaging Exceptions (49 CFR 173.xxx)   | : 150  |   |   |
| DOT Quantity Limitations Passenger aircraft/rail<br>(49 CFR 173.27)   |  |   |   |
| DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)  | : 220 L  |   |   |
| DOT Vessel Stowage Location   | : A - The materia passenger ves  |   | er deck" on a cargo vessel and on a   |
| Other information   | : No supplement  | tary information available.   |   |
| TDG   |  |   |   |
| No additional information available   |  |   |   |
| Transport by sea  |  |   |   |
| UN-No. (IMDG)   | : 3272   |   |   |
| Proper Shipping Name (IMDG)   | : ESTERS, N.O.   | S.  |   |
| Class (IMDG)  | : 3 - Flammable  | liquids   |   |
| Packing group (IMDG)  | : III - substances   | s presenting low danger   |   |
| Air transport   |  |   |   |
| UN-No. (IATA)   | : 3272   |   |   |
| Proper Shipping Name (IATA)   | : Esters, n.o.s.   |   |   |
| Class (IATA)  | : 3 - Flammable Liquids  |   |   |
| Packing group (IATA)  | : III - Minor Dang   | ger   |   |
| SECTION 15: Regulatory information  |  |   |   |
| 15.1. US Federal regulations  |  |   |   |
| All components of this product are listed, or exc<br>Substances Control Act (TSCA) inventory exce                     |  | on the United States Environmental  | Protection Agency Toxic   |
| Methyl 2-(trifluoromethyl)-3,3,3-trifluoropropano   | ate  | CAS No 360-54-3   | 100%  |
| This product or mixture does not contain a toxic CFR §372.38(a) subject to the reporting require and 40 CFR Part 372. |  |   |   |
| 15.2. International regulations   |  |   |   |
| CANADA<br>No additional information available   |  |   |   |
| EU-Regulations<br>No additional information available   |  |   |   |
| National regulations  |  |   |   |
| Methyl 2-(trifluoromethyl)-3,3,3-trifluoroprop  |  |   |   |
| Listed on the Japanese ISHL (Industrial Safety  | and Health Law)  |   |   |
| 15.3. US State regulations  |  |   |   |
|   |  |   |   |

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

#### SECTION 16: Other information

| Eye Irrit. 2A  | Serious eye damage/eye irritation Category 2A   |
|--|---|
| Flam. Liq. 3   | Flammable liquids Category 3  |
| Skin Irrit. 2  | Skin corrosion/irritation Category 2  |
| STOT SE 3  | Specific target organ toxicity (single exposure) Category 3   |
| H226   | Flammable liquid and vapor  |
| H315   | Causes skin irritation  |
| H319   | Causes serious eye irritation   |
| H335   | May cause respiratory irritation  |
| NFPA fire hazard<br>NFPA reactivity  | <ul> <li>given.</li> <li>3 - Liquids and solids that can be ignited under almost all ambient conditions.</li> <li>0 - Normally stable, even under fire exposure conditions, and are not reactive with water.</li> </ul>   |
| HMIS III Rating  |   |
| Health   | : 2 Moderate Hazard - Temporary or minor injury may occur   |
| Flammability   | <ul> <li>3 Serious Hazard - Materials capable of ignition under almost all normal temperature<br/>conditions. Includes flammable liquids with flash points below 73 F and boiling points above<br/>100 F. as well as liquids with flash points between 73 F and 100 F. (Classes IB &amp; IC)</li> </ul> |
| Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and v<br>react with water, polymerize, decompose, condense, or self-react. Non-Explosives. |   |

SDS US (GHS HazCom 2012)

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