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| --- | --- | --- | --- | --- | --- |
|  | |  | | | |
| **(PETROLEUM, COAL & RELATED PRODUCTS DEPTT.)** | | | |
| **AGENDA** | | | | | |
| **Organic Chemicals, Alcohols & Allied Products Sectional Committee, PCD 9** | | | | | **37th Meeting** |
| **DATE & TIME** | 1 March 2024, 10:30 am | | | | |
| **VENUE** | Hybrid (Virtual + Physical) | | | | |
| Virtual Meeting Details | | | Physical Meeting Details | |
| Meeting Link: | | https://bismanak.webex.com/bismanak/j.php?MTID=m38ddda25c3a557e313093519979345d1 | Venue: | Lal C Verman Hall, BIS Headquarters, 9, Bahadur Shah Zafar Marg, New Delhi, Delhi-110002, |
| Meeting Number: | | 2527 879 8714 |
| Password: | | kW5qKtXky85 (59575895 from video systems) | City: | New Delhi, India |
| **CHAIRMAN:** | **Dr. C.V Rode, NCL Pune** | | | | |
| **MEMBER SECRETARY** | Ms Aditi Choudhary, Scientist ‘B’ (PCD), BIS  E-mail: [pcd9@bis.gov.in](mailto:pcd9@bis.gov.in); [pcd@bis.gov.in](mailto:pcd@bis.gov.in) | | | | |

# Part 1

# Item 0 OPENING OF THE MEETING

# Welcome by Bureau of Indian Standards

# Opening remarks by the Chairman

# Item 1 CONFIRMATION OF THE MINUTES OF THE 36th MEETING OF PCD 9

* 1. The minutes of the 36th meeting held on 7 November 2023 (virtual) of Organic Chemicals, Alcohols and Allied Products Sectional Committee, PCD 9 were circulated vide mail dated 13 December 2023. No comments have been received on the minutes circulated.

The Committee may **NOTE** and **CONFIRM** the minutes of 36th meeting.

**Item 2 THE PRESENT TITLE, SCOPE AND COMPOSITION OF PCD 9**

**2.1** The title, scope and updated composition of the Committee, along with the attendance of the members in the last three meetings are attached below.

# Last 3 meeting attandance —

|  |  |  |
| --- | --- | --- |
| **ORGANIZATION** | **ATTENDANCE** | **BIS OBSERVATION** |
| ***Industry – Manufacturer/User = 13/ 20 (65 percent)*** | | |
| BASF India Limited, Mumbai | 2/3 | Didn't attended the last meeting. |
| Deepak Fertilizers and Petrochemicals Corporation Limited, Navi Mumbai | 2/3 | Didn't attended the last meeting. |
| Deepak Phenolics Limited, Vadodara | 3/3 | - |
| Dow Chemical International Private Limited, Mumbai | 2/3 | Didn't attended the last meeting. |
| Godavari Biorefineries, Mumbai | 2/3 | Didn't attended the last meeting. |
| Gujarat Narmada Valley Fertilizers Company Limited, Ahmedabad | 3/3 | - |
| Hindustan Organic Chemicals Limited (HOCL), Mumbai | 3/3 | - |
| India Glycols Limited, Uttarakhand | 1/3 | Didn't attended the last meeting. |
| Indian Oil Corporation Limited, Panipat | 3/3 | - |
| Jubilant Life Sciences Limited, Noida | 2/3 | - |
| Laxmi Organic Indusrties, Mumbai | 2/3 | - |
| Reliance India Limited, Mumbai | 3/3 | - |
| United Phosphorus Limited, Mumbai | 3/3 | - |
| ***Associations = 3/20 (15 percent)*** | | |
| All India Distillers Association, New Delhi | 1/3 | New nomination received |
| Chemical and Petrochemicals Manufacturers Association, New Delhi | 1/3 | - |
| Indian Chemical Council | 2/3 | Didn't attended the last meeting: |
| ***Laboratory = 1/20 (5 percent)*** | | |
| National Chemical Laboratory, Pune | 2/3 | - |
| ***Research = 1/20 (5 percent)*** | | |
| CSIR - Central Drug Research Institute, Lucknow | 1/3 | - |
| ***Regulator = 1/20 (5 percent)*** | | |
| Ministry of Chemicals and Fertilizers, New Delhi | 2/3 | - |
| ***Personal capacity = 1/20 (5 percent)*** | | |
| Dr M.J. Kapadia | 3/3 | - |

# The Committee may NOTE and CONSIDER.

# 2.2 Based on the decision of the Committee in its 35th meeting, the following organization have been withdrawn:

# Alkyl Amines Chemicals Limited, Mumbai

# ION Exchange India Limited, Mumbai

# All India Alcohol-Based Industries Development Association, Mumbai

# INEOS Styrolution India Limited, Vadodara

# 2.3 Further, to improve participation and effective functioning, the Competent authority of BIS has advised the Sectional Committee that members remaining absent from two consecutive meetings of sectional committee shall automatically lead to the lapse of membership. Based on the above decision the following organization has been withdrawn:

# Dr Reddy Laboratories, Bangaluru

# The Committee may NOTE.

# 2.4 Request received for Co-option in Sectional Committee

# 2.4.1 *Representation received from Deepak Chem Tech Limited*

# A request has been received from Shri Sandip Pandya from M/s Deepak Chem Tech Ltd via mail dated 13 September 2023. Earlier he was representing in Committee on behalf of Deepak Phenolics Ltd. It is informed that M/s Deepak Chem Tech Ltd is sister company of M/s Deepak Phenolics Ltd.

# 2.4.2 *Representation received from Baramati Agro Limited (BAL)*

# A request has been received from Shri Jyotyajirao Suryawanshi (General Manager - QA, Sugar and Ethanol) from M/s Baramati Agro Limited (BAL). Baramati Agro Limited company is one of largest manufacturers of Sugar, Ethanol, Feed and Food industries. Earlier he was representing in Committee on behalf of Laxmi Organic Industries Limited.

# The Committee may CONSIDER.

**Item 3 ISSUES ARISING OUT OF PREVIOUS MEETINGS**

**3.1 New Subjects received from DCPC**

The following new subjects have been received from DCPC for formulation of Indian Standards, in 2020. The decision of the last meeting and the current status are given below:

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl No.** | **NWIP Title** | **Decision of the Committee in previous meeting** | **Present Status** |
|  | PBO-BUTO-AM OR 1-[(4R,5R)-5-[(4-METHOXYPHENYL) THIO]  [HS Code 29339900] | The Committee once again noted that the name of the chemical appears to be incorrect, and no such name is available in HS Code list. Therefore, the Committee requested BIS Sectt. to write to DCPC for clarification regarding the correctness of name. | Clarification awaited from DCPC. |

The Committee may **NOTE** and **CONSIDER** requesting DCPC to provide clarification on the correctness of the product name.

**3.2 COMMENTS ON PUBLISHED STANDARDS**

**3.2.1** **IS 1049 : 1962 Specification for alcohol, perfumery grade**

The Fragrance and Flavour Sectional Committee, PCD 18 AGREED to the decision of Organic Chemicals, Alcohols and Allied Products Sectional Committee PCD 09 about the transfer of IS 1049 to PCD 18 committee, since IS 1049 prescribes the requirement of alcohol for perfumery grade, which comes under the scope of Fragrance and Flavour Sectional Committee PCD 18. The decision of transfer of IS 1049 from PCD 9 to PCD 28 is yet to be RATIFIED by PCDC.

The Committee may **NOTE**.

**3.2.2 IS 5573 : 1984 Specification for ethylene oxide (First Revision)**

During the last meetings, the Committee constituted a Panel to deliberate on the comments received in details.

Composition of the Panel:

1. Shri Pramod Mall, Reliance (*Convener*);
2. Dr. R.K. Sharma, India Glycols Limited; and
3. Dr Y.S, Jhala, IOCL

# The Panel deliberated on the comments received and provided its recommendation to BIS Sectt. Based the recommendation of the Panel, the Committee in its 35th meeting REQUESTED BIS Sectt. to prepare the draft revision and circulate the revised draft as prepared to Panel for 10 days. If no comments are received on the circulated draft, it may be issued into wide circulation for a period of 2 month time.

# Present Status:

# Comments were received on the circulated draft.

# The 2nd meeting of the Panel was scheduled on 22 February 2024 to deliberate on the comments received on P-draft. The following are the recommendation received from the Panel:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl. No.** | **Clause/Sub-clause/ para/table/fig. No. commented** | **Proposed change** | **Justification** | **Recommendation of the Panel** |
|  | IS 5573: Draft [ Point 3, 3.1 – Description  **Appearance**  (Transparent, colourless gas or liquid, free from any suspended or entrained matter) | Proposed to change to:  “Clear Colourless transparent liquid. No Suspended or black particle. | RIL is reporting “Appearance” parameter as “Clear Colourless transparent liquid. No suspended or black particles.  The reference method in use is ASTM D 4176 (Visual Inspection) | The Panel decided not to incorporate any method for determination of description as it can be visualized. |
|  | IS 5573: Draft [ Point 3, 3.1 – Description  **Solubility**  (It shall be soluble in water) | Solubility statement / test are proposed to drop. | Considering EO's toxicity and carcinogen nature propose to delete solubility test. It is not required by Industry as well. | Keeping in mind the toxicity of ethylene oxide and solubility of ethylene oxide in water being not an important parameter, the Panel decided to delete the requirement. |
|  | IS 5573: Draft [ANNEX A – Table 1, Sl No. (i)]  **Colour**  (Pt-Co Scale, Max 10, Test Method ANNEX A) | Proposed to delete colour requirement. | Considering EO's toxicity and carcinogen nature propose to replace colour with qualitative test i.e., visual appearance as “Clear Colourless transparent liquid. No suspended or black particles.” Moreover, colour analysis is also difficult as dew will be formed outside of cylinder since EO boiling point is quite low (10.7◦C). | Keeping in mind the toxicity of ethylene oxide and colour being not an important parameter as colouration in EO can’t be present through any mean and can be visually examined while description is determined. Hence, the Panel decided to make the requirement an optional parameter. |
|  | IS 5573: Draft [ANNEX B – Table 1, Sl No. (ii)]  **Aldehyde (as Acetaldehyde content)**  (percent by mass, Max 0.01, Test Method ANNEX B) | 1. Specification to be made stringent to **30** mg/kg Max 2. Calculation part should be included. | 1. Being achieved at RIL and as per current Industry Standards 2. Aldehyde analysis method proposed by RIL is included however final calculation part is missing & should be included. | 1. After reviewing the data analysis submitted by Reliance and keeping in mind the current industry need, the Panel recommended to modify the requirement limit to 30 ppm. 2. Decided to incorporate the final calculation part as proposed by Reliance which is missing in the existing draft. |
|  | IS 5573: Draft [ANNEX B – Table 1, Sl No. (iii)]  **Moisture content** (percent by mass, Max 0.05) | Specification to be made stringent to 200 mg/kg Max | Being achieved at RIL and as per current Industry Standards | After reviewing the data analysis submitted by Reliance and keeping in mind the current industry need, the Panel recommended to modify the requirement limit to 200 ppm for moisture content and 20 ppm for acidity. |
|  | IS 5573: Draft [ANNEX B – Table 1, Sl No. (iv)]  **Acidity (as CH3COOH)**  (percent by mass, Max 0.10) | Specification to be made stringent to 20 mg/kg Max | Being achieved at RIL and as per current Industry Standards |
|  | IS 5573: Draft [ANNEX E – Table 1, Sl No. (v)]  **Ionisable chlorides**  (mg/l, Max 10, Test Method ANNEX E Method B) | RIL proposed to include solution standardization details. Moreover, in ANNEX E Method B E-3.5 Calculation, abbreviations for ‘S’ & ‘T’ should be provided. | In ANNEX E Method B, solution standardization details for silver nitrate & ammonium thiocyanate are missing. | Agreed to incorporate solution standardization details for more clarity and information. |
|  | IS 5573: Draft [ANNEX B – Table 1, Sl No. (vi)]  **Non-volatile matter**  (percent by mass, Max 0.01) | Specification to be made stringent to 30 mg/kg Max | Being achieved at RIL and as per current Industry Standards | After reviewing the data analysis submitted by Reliance and keeping in mind the current industry need, the Panel recommended to modify the requirement limit to 30 ppm for non-volatile matter. |
|  | IS 5573: Draft [ANNEX G – Table 1, Sl No. (vii)]  **Ethylene oxide content (by difference)**  (percent by mass, Min 99.5, Test Method ANNEX G) | 1. Specification to be made stringent to 99.95% Min 2. There is typo error in ANNEX G Header. It should be corrected. | 1. Being achieved at RIL and as per current Industry Standards 2. ANNEX G Header is wrong & should be corrected. | After reviewing the data analysis submitted by Reliance and keeping in mind the current industry need, the Panel recommended to modify the requirement limit to 99.95 percent for purity. |
|  | IS 5573: Draft [ANNEX A – Table 1, Sl No. (ii to vi)] | Note should be added to report UOM in mg/kg in addition to percent by mass. | Commonly UOM mg/kg is used for reporting Aldehyde (as Acetaldehyde content), Moisture content, Acidity (as CH3COOH), Ionisable chlorides & Non-volatile matter. | Agreed to modify the unit to ppm as ppm is more precise and accurate unit to report impurities. |

# Further, the Panel requested BIS Sectt. to prepare draft by incorporating the agreed changes and circulate to Panel once again for 15 days. If no comments are received, the draft may be issued into wide circulation for a period of 2 months time.

The Committee may **NOTE** and **CONSIDER** issuing into wide circulation for a period of 2 months based on the recommendation of the Panel.

# Item 4 DRAFTS STANDARD/AMENDMENTS FOR APPROVAL FOR WIDE CIRCULATION

**4.1 IS 14707 Methyl Acrylate – Specification**

During the 35th meeting, the Committee requested Shri Kiran Bhat, BASF to provide the GC method for determination of inhibitor. Further, requested BIS Sectt. to prepare draft revision by incorporating the GC method as revised from BASF into P-draft and issue it into wide circulation for a period of 1 month time, eliciting comments, as the standard is under mandatory certification.

**Present Status:**

Based on the decision of the Committee, Shri Kiran Bhat, BASF was requested to provide the GC method for determination of inhibitor. While, he informed that they are using HPLC method for determination of inhibitor not GC method and provided the same for Committee consideration.

Draft revision —

HPLC — 

The Committee may **NOTE** and **CONSIDER**.

# 4.2 IS 869: 2020 Ethylene Dichloride (EDC) – Specification

# During the last meetings the Committee constituted the following Panel to deliberate and prepare the draft revision by incorporating indigenous method based on ASTM methods:

# Composition of the Panel:

# Shri Sanjeev, Sanmar Group (*Convener)*

# Shri Jayasekharan, DCW

# Shri Anil Satpathy, Finolex

# Shri Pramod Mall, RIL

# 

# The Panel conducted various meeting and submitted their recommendations to BIS sect. Based on the recommendation of the Panel, the Committee in its 35th meeting REQUESTED BIS Sectt. to prepare the draft revision and circulate the revised draft as prepared to Panel for 1 month. If no comments are received on the circulated draft, it may be issued into wide circulation for a period of 1 month time, as under mandatory certification.

# Present Status:

# The draft prepared is prepared and attached as:

# 

# The draft is yet to be circulated to Panel for reviewing.

# The Committee may NOTE.

# 4.3 IS 17442:2020 Vinyl Chloride Monomer – Specification

# During the last meetings the Committee constituted the following Panel to deliberate and prepare the draft revision by incorporating indigenous method based on ASTM methods:

# Composition of the Panel:

# Shri Sanjeev, Sanmar Group (*Convener)*

# Shri Jayasekharan, DCW

# Shri Anil Satpathy, Finolex

# Shri Pramod Mall, RIL

# 

# The Panel conducted various meeting and submitted their recommendations to BIS sect. Based on the recommendation of the Panel, the Committee in its 35th meeting REQUESTED BIS Sectt. to prepare the draft revision and circulate the revised draft as prepared to Panel for 1 month. If no comments are received on the circulated draft, it may be issued into wide circulation for a period of 1 month time, as under mandatory certification.

# Present Status:

# The draft prepared is yet to be prepared.

# The Committee may NOTE.

**Item 5 DRAFTS UNDER WIDE CIRCULATION FOR FINALIZATION**

**5.1 PCD 09 (21797) — IS 230 : 1972 Specification for Normal Butyl Acetate (Second Revision)**

The draft revision was issued into wide circulation on 23 October 2023, with last date of comments as 22 December 2023.

Draft for finalization — 

No comments have been received on wide circulation document.

The Committee may **CONSIDER** finalizing the draft revision for printing.

**5.2 PCD 09 (23939) — IS 15356 : 2003 Acetaldehyde - Specification**

The draft revision was issued into wide circulation on 23 October 2023, with last date of comments as 22 December 2023.

Draft for finalization — 

The following comments have been received via standardization portal:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sl. No.**  **(1)** | **Clause/Sub-clause/ para/table/fig. No. commented**  **(2)** | **Commentator/**  **Organization/**  **Abbreviation**  **(3)** | **Type of Comments**  **(General/Editorial/ Technical)**  **(4)** | **Justification**  **(5)** | **Proposed change**  **(6)** |
| 1. | 3.1 Scope | Shri Vipul;  regulife@merckgroup.com, M/s Merck Group | Technical | Currently IS 15356 covers grade which intended for industrial purposes.  IS 15356 does not include Analytical grade/pharmaceutical garde (Use in medicinal products for human or veterinary use or in food)/reference material  Hence IS standards should clarify does other grades falls under scope of the IS 15356? | Addition of statement recommending that IS 15356 excludes analytical/ pharmaceutical grade/ reference standard material of Acetaldehyde. |
| 2. | B-3/B-3.1 | Shri C. S. Patel; cspatel@gnfc.in; M/s GNFC | Technical | Sample size: 1 µl  Use term "Injection Volume" instead of Sample size. | **Injection volume: 1 µl** |
| 3. | B-3/B-3.1 | Shri C. S. Patel; cspatel@gnfc.in; M/s GNFC | Technical | Split ratio: 1.25 or suitable.  Split ratio defined as 1:25 instead of 1.25. | Split Ratio: 1:25 or suitable |

The Committee may **DELIBERATE** the comments received and **CONSIDER** finalizing the draft revision for printing.

**5.3** **PCD 09 (24540) —Ethyl acrylate – Specification (First Revision of IS 14708)**

The draft revision was issued into wide circulation on 2 January 2024, with last date of comments as 1 February 2024.

Draft for finalization — 

No comments have been received on wide circulation document.

The Committee may **CONSIDER** finalizing the draft revision for printing.

**5.4 PCD 09 (23563) — IS 717 : 1998 Carbon disulphide, technical specification (Second Revision)**

The draft revision was issued into wide circulation on 23 October 2023, with last date of comments as 22 December 2023.

Draft for finalization — 

The following comments have been received via standardization portal and email:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sl. No.**  **(1)** | **Clause/Sub-clause/ para/table/fig. No. commented**  **(2)** | **Commentator/**  **Organization/**  **Abbreviation**  **(3)** | **Type of Comments**  **(General/Editorial/ Technical)**  **(4)** | **Justification**  **(5)** | **Proposed change**  **(6)** |
| 1. | 1. Scope | Ms Sonali Zende; sonali.zende@merckgroup.com; M/s Merck Group | Technical | IS 717 is applicable for Technical Grade only.  The scope does not cover the  lab grade (Research & Academia) & ACS Grade (acceptable for food, drug, or medicinal use and can be used for ACS applications or for general procedures that require stringent quality specifications and a purity of ≥ 95%).  Hence IS standards should clarify extended application to ACS, pharmaceutical and lab garde standards . | Additional statement this standard exclude the ACS and lab grade carbon disulphide from the listed requirements, the methods of sampling and test. |
| 2. | 1 | Shri Vipul; regulife@merckgroup.com; M/s Merck Group | Technical | IS 717 is applicable for Technical Grade only. The scope does not cover the  lab grade (Research & Academia) & ACS Grade (acceptable for food, drug, or medicinal use and can be used for ACS applications or for general procedures that require stringent quality specifications and a purity of ≥ 95%). Hence IS standards should clarify extended application to ACS, pharmaceutical and lab grade standards . | Additional statement this standard exclude the  ACS and lab grade carbon disulphide from the listed requirements, the methods of sampling and test. |
| 3. | Clause 3.2, Table 1, Sl. No. (i) | Indobaijin Chemicals pvt ltd | Technical | Relative density at 27 ºC/27 ºC, Requirement value is 1.251 to 1.262.  This is incorrect as per current IS 717 and this has been not decided and discuss to change. | So, to be correct it 1.257 to 1.262. |

The Committee may **DELIBERATE** the comments received and **CONSIDER** finalizing the draft revision for printing.

**5.5 PCD 09 (22256) — Pyridine - Specification (First Revision) Amendment – 1**

The draft revision was issued into wide circulation on 3 April 2023, with last date of comments as 3 May 2023. The Committee had finalized the amendment for printing in its 35th meeting. But while preparing the F-draft, BIS Sectt observed the following:

Draft for finalization — 

IS 8058 — 

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sl. No.**  **(1)** | **Clause/Sub-clause/ para/table/fig. No. commented**  **(2)** | **Commentator/**  **Organization/**  **Abbreviation**  **(3)** | **Type of Comments**  **(General/Editorial/ Technical)**  **(4)** | **Justification**  **(5)** | **Proposed change**  **(6)** |
|  | 6.2.3 | BIS Sectt | Technical | The symbol given in Fig. 5 of IS 1260 (Part 1), and the words ‘HARMFUL, VAPOUR  FLAMMABLE. KEEP IN COOL PLACE’ in  Capitals should be marked on containers as well in case of bulk transport as during transport the person handling the chemical should ne aware that it is harmful. | **The following may also be incorporated:**  ‘All containers (including containers/tankers for bulk transport) in which the material is stored or transported shall be prominently and clearly marked with Fig. 5 of IS 1260 (Part 1), and the words  ‘HARMFUL, VAPOUR  FLAMMABLE. KEEP IN COOL PLACE’ |

The Committee may **DELIBERATE** the comments received and **CONSIDER** finalizing the draft amendment for printing.

**5.6 PCD 09 (23390) — Specification for Maleic Anhydride, Technical ( Second Revision ) Amendment – 5**

The draft revision was issued into wide circulation on 28 August 2023, with last date of comments as 27 September 2023.

Draft for finalization —

No comments have been received on wide circulation document.

The Committee may **CONSIDER** finalizing the draft amendment for printing.

**5.7 PCD 09 (23391) — Acetic Acid - Specification ( Fourth Revision ) Amendment – 3**

The draft revision was issued into wide circulation on 28 August 2023, with last date of comments as 27 September 2023.

Draft for finalization — 

No comments have been received on wide circulation document.

The Committee may **CONSIDER** finalizing the draft amendment for printing.

**5.8 PCD 09 (23392) — Specification for Methylene Chloride (Dichloromethane), Technical (Second Revision) Amendment – 2**

The draft revision was issued into wide circulation on 28 August 2023, with last date of comments as 27 October 2023.

Draft for finalization — 

No comments have been received on wide circulation document.

The Committee may **CONSIDER** finalizing the draft amendment for printing.

**5.9 PCD 09 (23411) — Iso Propyl Alcohol - Specification ( Second Revision ) Amendment – 2**

The draft revision was issued into wide circulation on 29 August 2023, with last date of comments as 28 October 2023.

Draft for finalization —

No comments have been received on wide circulation document.

The Committee may **CONSIDER** finalizing the draft amendment for printing.

**5.10 PCD 09 (23412) — Terephthalic Acid - Specification (First revision) Amendment – 1**

The draft revision was issued into wide circulation on 29 August 2023, with last date of comments as 28 September 2023.

Draft for finalization — 

The following comments have been received via email:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sl. No.**  **(1)** | **Clause/Sub-clause/ para/table/fig. No. commented**  **(2)** | **Commentator/**  **Organization/**  **Abbreviation**  **(3)** | **Type of Comments**  **(General/Editorial/ Technical)**  **(4)** | **Justification**  **(5)** | **Proposed change**  **(6)** |
| 1. | 5.1 | Dr Y.S. Jhala, IOCL | Technical | 1500 kg packages are also used for packing the material. | **Modify the existing as:**  ‘The material shall be supplied in bulk containers of 1 000 kg ***to 1500 kg*** in flexible woven plastic or packages as agreed to between the purchaser and the supplier.’  ***BIS Observation:*** In the last meetings the Committee have deleted the quantity of packages used by issuing the amendment. The modified statement is given below:  ‘The material shall be either supplied in flexible woven plastic or packages or in bulk, as agreed to between the purchaser and the supplier.’ |
|  | 5.2.1 | Dr Y.S. Jhala, IOCL | Technical | **—** | Replace ‘Month and year of manufacture’ by ‘Batch/Lot Number’  ***BIS Observation:*** Batch/Lot Number is already the part of marking clause in the revised standard. |

The Committee may **DELIBERATE** the comments received and **CONSIDER** finalizing the draft amendment for printing.

**5.11 PCD 09 (23413) — Urea , Technical - Specification (Second Revision) Amendment – 1**

The draft revision was issued into wide circulation on 29 August 2023, with last date of comments as 28 October 2023.

Draft for finalization —

No comments have been received on wide circulation document.

The Committee may **CONSIDER** finalizing the draft amendment for printing.

**5.12 PCD 09 (24405) — Specification for Methanol ( Methyl Alcohol ) ( Third Revision ) Amendment – 2**

The draft revision was issued into wide circulation on 8 December 2023, with last date of comments as 7 January 2024.

Draft for finalization — 

No comments have been received on wide circulation document.

The Committee may **CONSIDER** finalizing the draft amendment for printing.

**5.13 PCD 09 (24417) — Acetone - Specification ( Fifth Revision ) Amendment – 4**

The draft revision was issued into wide circulation on 14 December 2023, with last date of comments as 13 January 2024.

Draft for finalization —

The following comments have been received via standardization portal:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sl. No.**  **(1)** | **Clause/Sub-clause/ para/table/fig. No. commented**  **(2)** | **Commentator/**  **Organization/**  **Abbreviation**  **(3)** | **Type of Comments**  **(General/Editorial/ Technical)**  **(4)** | **Justification**  **(5)** | **Proposed change**  **(6)** |
| 1. | 4.2 / 4.2.2 | Shri C. S. Patel; cspatel@gnfc.in; M/s GNFC | Editorial | **4.2.2** For supplies of material in bulk, a test certificate containing the details mentioned at **4.2.1** shall be provided for each consignment.  "4.2.1" of above is in Bold letter which is create confusion as it is sub-clause no.  **Remove bold of "4.2.1" letter in sub-clause 4.2.2.** | Modify Wording:  **4.2.2** For supplies of material in bulk, a test certificate containing the details mentioned at 4.2.1 shall be provided for each consignment. |
| 2. | 4.2 Marking /4.2.1; 1 | Shri Vipul; regulife@merckgroup.com; M/s Merck group | Technical | Request to amend 4.2.1 c) and remove the requirement to include Tare & Gross mass on the label.  Due to size constraints in labels for smaller pack sizes gross and tare mass can be included in the Test report ( or Certificate of Analysis). As an industry practice Net content of Acetone is declared in Liters on primary packaging. Owing to existing familiarity of customers with measuring Acetone in Liters request to allow marking of a container with Net mass in Liters. Since gross and tare mass cannot be measured in Liters due to weight of packaging material, the inclusion of all three weights in different units may create confusion. Hence request you to allow declaration of gross and tare mass on the test report and not on marking on container. Additionally Gross and tare mass are hard to determine for each stock-keeping unit. The variation in packaging material adds to complication of reporting tare mass and gross mass. Declaring the net weight of the actual product on the label will ease labeling for manufacturers as well as provide required information to customers.  Request to amend 4.2.1 e) and replace Date of packing with Date of Manufacturing As a general Industry practice Date of manufacturing is declared on the label. Industrial & academic consumers of solvents are also familiar with date of manufacturing rather that date of packaging. Hence including the date of packing instead of date of manufacturing will cause concerns from customers who define the date of manufacturing and date of expiry as qualifying criteria for accepting solvents as raw material. Other solvents such as Methanol also mentions the Date of manufacturing rather than the Date of packaging. For a supplier of multiple solvents having harmonization on labels will help manage the cost and logistics of labelling.  Pharmaceutical guidance from authorities such as USP <1078> which provides GMP for excipients also requires the date of manufacturing. Acetone is also supplied to Pharma customers and hence it would be good to harmonize this requirement with pharma guidance. | 4.2.1 Each container shall be marked legibly and indelibly with the following information: a) Name of the material; b) Manufacturer’s name; **c) Net mass**  d) Recognized trade-mark, it any; and e) **Date of manufacturing** |
| 3. | 4.2 Marking /4.2.3; 1 | Vipul; regulife@merckgroup.com; 9967590139 | Technical | Request to amend 4.2.3 and replace Flammable Symbol Fig. 5 of IS 1260 (Part 1) with flammable symbol mentioned in Classification and Labeling of Chemicals (GHS).  Flammable Symbol for labelling of dangerous goods as per Fig. 5 of IS 1260 (Part 1) is outdated as per current Industry practice. As per Globally Harmonized System of Classification and Labeling of Chemicals (GHS) the symbol for flammable and standard should be updated to harmonize it with GHS. For symbol please refer the enclosed attachment of Draft 170 IS Std-comments The current GHS regulations for hazard communication and dangerous goods are basically viewed separately. As per GHS 7 Label and SDS should display the following GHS symbols. For symbol please refer the enclosed attachment of Draft 170 IS Std-comments. | 4.2.3 All containers (including containers/tankers for bulk transport) in which the material is stored or transported shall be prominently and clearly marked with minimum cautionary notice, worded as: ‘FLAMMABLE’ along with symbol for labelling of dangerous goods, for Symbol Please refer the enclosed attachment of Draft 170 IS Std-comments.  Additional attachment of Globally Harmonized system of Classification and Labelling of Chemicals (GHS) for ready reference. |

The Committee may **DELIBERATE** the comments received and **CONSIDER** finalizing the draft amendment for printing.

**5.14 PCD 09 (24367) — n-Butyl Acrylate - Specification (First Revision of IS 14709)**

The draft revision was issued into wide circulation on 7 December 2023, with last date of comments as 6 January 2024.

Draft for finalization — 

The following comments have been received via standardization portal:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sl. No.**  **(1)** | **Clause/Sub-clause/ para/table/fig. No. commented**  **(2)** | **Commentator/**  **Organization/**  **Abbreviation**  **(3)** | **Type of Comments**  **(General/Editorial/ Technical)**  **(4)** | **Justification**  **(5)** | **Proposed change**  **(6)** |
| 1 | Table 1, Sl. No. (v) | Mr Kiran Bhat; kiran.bhat@basf.com; M/s BASF | Technical | In column -2  Inhibitor is mentioned as butyl etherhydroquinone. Commercially used inhibitor is Methyl etherhydroquinone. Hence needs correction. | Inhibitors (as **Methyl** etherhydroquinone), ppm, Max |
| 2 | Table 1, Sl. No. (iii) | Mr Kiran Bhat; kiran.bhat@basf.com; M/s BASF | Technical | Column 5  Mentioned method IS 8768 describes color standard preparation and manual comparison, current industry practice is to use spectrophotometers with in built method. | Use spectrophotometers with in built method is to be allowed in the method IS 8768. |

The Committee may **DELIBERATE** the comments received and **CONSIDER** finalizing the draft revision for printing.

**5.15 PCD 09 (24588) — Trimethylamine Technical Specification First Revision**

The draft revision was issued into wide circulation on 8 January 2024, with last date of comments as 8 March 2024.

Draft for finalization — 

The following comments have been received via standardization portal:

|  |  |  |  |  |  |
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| **Sl. No.**  **(1)** | **Clause/Sub-clause/ para/table/fig. No. commented**  **(2)** | **Commentator/**  **Organization/**  **Abbreviation**  **(3)** | **Type of Comments**  **(General/Editorial/ Technical)**  **(4)** | **Justification**  **(5)** | **Proposed change**  **(6)** |
| 1 | A-3.6 (1) | Dr Mayur J. Kapadia; mjkapadia61@gmail.com; Personal Capacity | Technical | Method of preparing standard mixture should indicate the approximate proportion of individual components. | A standard mixture of ammonia, monomethylamine, dimethylamine, trimethylamine, methanol and water is prepared on m/m basis, preferably in concentration similar to the expected in sample, taking care to see that the total vapour pressure of the mixture does not exceed 1 kg/cm2. |

The Committee may **DELIBERATE** the comments received and **CONSIDER** finalizing the draft revision for printing, if no comments are received till 8 March 2024.

**5.16 PCD 09 (24589) — Monomethylamine Technical Specification (First Revision)**

The draft revision was issued into wide circulation on 8 January 2024, with last date of comments as 8 March 2024.

Draft for finalization — 

The following comments have been received via standardization portal:

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| **Sl. No.**  **(1)** | **Clause/Sub-clause/ para/table/fig. No. commented**  **(2)** | **Commentator/**  **Organization/**  **Abbreviation**  **(3)** | **Type of Comments**  **(General/Editorial/ Technical)**  **(4)** | **Justification**  **(5)** | **Proposed change**  **(6)** |
| 1 | Table 2 (iv); 1 | Dr Mayur J. Kapadia; mjkapadia61@gmail.com; Personal Capacity | Technical | The limits of dimethyl amine and triethyl amine are prescribed as 0.2 and 0.1 % respectively for 40% solution of monoethylamine.  The limits of these impurities in Anhydrous material (Table 1) are 0.4 % for each.  Logically, it is more appropriate to keep identical limit for 40% solution i.e. 0.2% for each of dimethyl amine and triethyl amine. | Trimethyl amine, percent by mass, Max = 0.2 |
| 2 | A-3.7; 1 | Dr Mayur J. Kapadia; mjkapadia61@gmail.com; Personal Capacity | Technical | Method of preparing standard calibration mixture is more clearly understood at B3.2.7, hence same may be considered for A3.7. | A standard mixture of ammonia, monomethylamine, dimethylamine, trimethylamine, methanol and water (see A-3.1 to A-3.6) is prepared on m/m basis, preferably in concentration similar to the expected in sample, taking care to see that the total vapour pressure of those mixtures does not exceed 1 kg/cm2. |

The Committee may **DELIBERATE** the comments received and **CONSIDER** finalizing the draft revision for printing, if no comments are received till 8 March 2024.

**5.17 PCD 09 (24772) — Dimethylamine Technical Specification (First Revision)**

The draft revision was issued into wide circulation on 5 February 2024, with last date of comments as 5 April 2024.

Draft for finalization — 

The following comments have been received via standardization portal:

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| --- | --- | --- | --- | --- | --- |
| **Sl. No.**  **(1)** | **Clause/Sub-clause/ para/table/fig. No. commented**  **(2)** | **Commentator/**  **Organization/**  **Abbreviation**  **(3)** | **Type of Comments**  **(General/Editorial/ Technical)**  **(4)** | **Justification**  **(5)** | **Proposed change**  **(6)** |
| 1 | A-3.7; 1 | Dr Mayur J. Kapadia; mjkapadia61@gmail.com; Personal Capacity | Technical | Method of preparing standard is technically more clear at the other place (B 3.2.7) in same standard. | A standard mixture of ammonia, monomethylamine, dimethylamine, trimethylamine, methanol and water (see A-3.1 to A-3.6) is prepared on m/m basis, preferably in concentration similar to that expected in the sample, taking care to see that the total vapour pressure of the mixture does not exceed 98.06 kN/m2. |

The Committee may **DELIBERATE** the comments received and **CONSIDER** finalizing the draft revision for printing, if no comments are received till 5 April 2024.

**5.18 PCD 09 (24831) — Phthalic Anhydride Technical Specification (Third Revision)**

The draft revision was issued into wide circulation on 12 February 2024, with last date of comments as 13 March 2024.

Draft for finalization — 

The following comments have been received via mail:

|  |  |  |  |  |  |
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| **Sl. No.**  **(1)** | **Clause/Sub-clause/ para/table/fig. No. commented**  **(2)** | **Commentator/**  **Organization/**  **Abbreviation**  **(3)** | **Type of Comments**  **(General/Editorial/ Technical)**  **(4)** | **Justification**  **(5)** | **Proposed change**  **(6)** |
| 1. | Table 1 Sl No. (ii) and (iii) & Annex B | Dr Mayur J. Kapadia; mjkapadia61@gmail.com; Personal Capacity | Technical | Colour is mentioned in 'Hazen' units, against other IS where APHA is mentioned. | Pt-Co unit may be used instead Hazen |
| 2. | Annex F, Method B | Dr Mayur J. Kapadia; mjkapadia61@gmail.com; Personal Capacity | Technical | Determination of iron is described by 2 methods. While method A prescribes spectrophotometric measurement, method B prescribes visual comparison. | Spectrophotometric measurement should be done for method B as well. |

The Committee may **DELIBERATE** the comments received and **CONSIDER** finalizing the draft revision for printing,